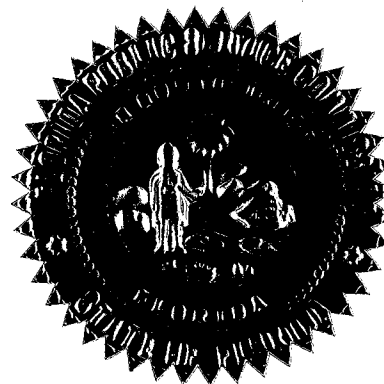


BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO: UNDOCKETED

In the Matter of

REVIEW OF TEN-YEAR SITE
PLANS OF ELECTRIC UTILITIES.



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PROCEEDINGS: 10-YEAR SITE PLAN WORKSHOP

BEFORE: CHAIRMAN LISA POLAK EDGAR
COMMISSIONER J. TERRY DEASON
COMMISSIONER ISILIO ARRIAGA
COMMISSIONER MATTHEW M. CARTER, II
COMMISSIONER KATRINA J. TEW

DATE: Thursday, September 7, 2006

TIME: Commenced at 9:30 a.m.
Concluded at 12:56 p.m.

PLACE: Betty Easley Conference Center
Room 148
4075 Esplanade Way
Tallahassee, Florida

REPORTED BY: JANE FAUROT, RPR
Official FPSC Hearings Reporter
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P R O C E E D I N G

1
2 CHAIRMAN EDGAR: Good morning. We will call this
3 workshop to order, and I will begin by asking our staff to read
4 the notice.

5 MS. FLEMING: Pursuant to notice issued by the
6 Commission Clerk on August 9, 2006, this time and place has
7 been set for the purpose of conducting a Commission workshop in
8 the undocketed review of ten-year site plans.

9 CHAIRMAN EDGAR: Thank you.

10 We do have a brief agenda that I believe was attached
11 to the notice when it went out, so I hope that everybody has a
12 feel for the way the discussion is going to go this morning.
13 We have asked the FRCC to summarize the regional load and
14 resource plan and to give us an update of the evaluation of the
15 interdependency of electric generation and natural gas
16 pipelines.

17 We are going to spend the majority of our time at
18 this workshop talking about transmission system issues, and we
19 have asked the FRCC to lead us in that discussion and to make a
20 presentation to us. And then later in the day we'll have
21 presentations from Progress Energy, from Tampa Electric
22 Company, and from Orlando Utilities Commission. And I will
23 give an opportunity and ask if there is anybody else who would
24 like to address the Commission on any of these issues.

25 This is a workshop. It is really one of the few

1 times that as a Commission we get to have an open discussion
2 together and look ahead. This is an exciting time. It gives
3 us an opportunity to think about and ask questions about and
4 discuss the future in Florida. So I encourage everybody to ask
5 lots questions and to take advantage of this opportunity for
6 discussion. And there will be, of course, the opportunity to
7 ask questions and discuss with our presenters. And I'll look
8 to staff to help us get started.

9 MR. HAFF: Thank you, Chairman.

10 We are going to hear presentations from Ken Wiley of
11 the FRCC. And we'll go in this order: Orlando Utilities
12 Commission; Schef Wright, I understand, will be presenting for
13 OUC; Progress Energy Florida; Sarah Rogers; and Tampa Electric
14 Company, Ron Donahey, and they will go in that order after Mr.
15 Wiley goes. And I will just turn it over to Mr. Wiley.

16 MR. WILEY: Thank you, Michael.

17 Commissioners, it's a pleasure to be here today.
18 This is the first time that we have had such an extensive
19 workshop with you, it has always been on the load and resource
20 plan, and that's kind of going to be the minor point of our
21 presentation today so we can get directly into the gas and the
22 transmission issues. So, please -- I know we gave you a lot of
23 slides here. I'm going to kind of hasten through a few of
24 them. Please stop me if you have any questions so that we can
25 get directly to the issues. And we'll see if I can operate

1 this computer.

2 Okay. Here we go. The first thing we'll talk about
3 is the load and resource plan. And this slide shows our load
4 growth going from 42,700 this year up to 53,000 in the year
5 2015. The bottom dashed line shows last year's forecast of
6 this. And I hate to add that our chartmaker put the wrong data
7 on this chart. The bottom line there is almost in alignment
8 with that top line, and I apologize for that, but we will get
9 updated slides to you after this presentation today. And this
10 was for the summer. And this is the winter peaks out through
11 the years 2015. And, again, the same problem with that bottom
12 dashed line.

13 When we look at the amount of capacity that we are
14 going to be adding over this 15-year period, you see that we're
15 going from around 50,000 up to about 62,000 megawatts of
16 capacity to serve the load that we just -- the demand that we
17 just showed you. And this shows the makeup of that capacity in
18 each of the years. And, please, if you have any questions,
19 stop me at any time.

20 But the important thing behind those two statistics
21 is this slide, and this is the reserve margin that we end up
22 with for the summer and the winter peak periods of each of
23 those years. And you will notice that in all of those years
24 the reserve margin is at 20 or above 20 percent for every one
25 of those years. And the red line you see at 15 is the minimum

1 reserve requirement that the FRCC requires. And you can see we
2 are well above that minimum. And, as a matter of fact, I might
3 add that this is in direct contrast to what we see in the
4 continental United States. And I just saw some data from the
5 North American Electric Reliability Council, NERC, as the
6 acronym are used, that shows in this same time period that the
7 reserve margins are going down significantly in the United
8 States. And when you look at Canada, which is interconnected
9 to us, it is even worse than the United States. And so I'm
10 happy to report that this region is bucking that national
11 trend.

12 So, in summary, the --

13 CHAIRMAN EDGAR: Mr. Wiley, just a moment.

14 Commissioner Carter.

15 COMMISSIONER CARTER: Thank you, Madam Chair.

16 Could you go back to the slide. What do you
17 attribute that trend in terms of why it's going down everywhere
18 in the United States and Canada versus what's happening in
19 Florida?

20 MR. WILEY: Part of that trend is a reluctance in the
21 out years for people to define what their planned units are.
22 And I think that's part of the problem. Some of it is siting
23 problems nationwide. In some of the regions of the country
24 they are depending upon the market to site this, merchant type
25 of generation in some of the regions of this country. So I

1 think it is a combination of a lot of those things. And as you
2 know, in this region this Commission pretty closely controls
3 what our reserve margin should be and has for quite a number of
4 years. And I think that's one of the reasons that this state
5 is staying up there is that this Commission is very active on
6 this subject.

7 COMMISSIONER CARTER: Thank you, Madam Chair.

8 MR. WILEY: Your staff had asked us to address
9 conservation that are in our plans, and we pulled out of our
10 data base some information on how much conservation, cumulative
11 conservation that we have saved over the years. And I believe
12 this data probably goes back into the '80s when conservation
13 was a very big-ticket item on this Commission's agenda. And we
14 have kept data all of these years about the cumulative effect
15 of that, and it is just interesting to note here the amount of
16 energy, which is the green line, that has been saved due to
17 conservation efforts in this state, and how much that
18 translates into capacity. In other words, if it were a
19 generator, and that is the blue line.

20 We're projecting that in the year 2015 that the
21 cumulative effect of all the conservation in this state over
22 all of these years would be approximately 3,000 megawatts of
23 generation capacity and 2,500 gigawatt hours of electrical
24 energy. And that's a pretty significant number.

25 MR. HAFF: Ken? I'm over here. Michael Haff over

1 here on this side.

2 Do you mean 7,000 gigawatt, is that the energy on the
3 left?

4 MR. WILEY: Gigawatt hours is on the left, yes.

5 The other thing that we thought we would bring to
6 your attention is the amount of renewable resources that has
7 been reported to us. And as of this year, there is
8 approximately 938 megawatts of renewable resources in the state
9 of Florida in our region. And that is broken up mostly by
10 municipal solid waste, wood waste, hydro and landfill gas. And
11 that's 938 megawatts of capacity, which is a rather significant
12 number. We thought we would bring that to your attention
13 today.

14 COMMISSIONER ARRIAGA: A quick question. And this is
15 renewable resources. What actions would you recommend we take
16 to continue promoting investment in this area?

17 MR. WILEY: Commissioner Arriaga, I'm not the expert
18 on that. I would prefer you direct that question to some of
19 the electric utilities themselves. They deal in that. And
20 that is not an active area that we get involved in. We get the
21 statistics so that we can account for that kind of capacity,
22 and I think I would be giving you a personal opinion rather
23 than an industry opinion. I'm sorry.

24 COMMISSIONER ARRIAGA: Thanks.

25 MR. WILEY: When we look at the amount of energy that

1 comes from fuels, it becomes very interesting. In 2006, we see
2 that, you see the pie chart on the left, that gas is producing
3 37 percent of the kilowatt hours produced in this state and
4 coal 24 percent. When we project out on our plans for the year
5 2015, we see gas expanding to 44 percent of the electrical
6 energy that is produced. And if all of those new coal units
7 are built that would consume -- they would produce 32 percent
8 of the electrical energy. And this is a chart that we are very
9 interested in, and I would think that this Commission is very
10 interested in. And with that, let me go quickly to the gas
11 portion of that, of natural gas.

12 COMMISSIONER CARTER: Madam Chair.

13 CHAIRMAN EDGAR: Commissioner Carter.

14 COMMISSIONER CARTER: If you could back up to Slide
15 10 for a moment, please. On your fuel mix, I see you're going
16 from 13 percent other in 2006 to 9 percent in 2015. What do
17 you attribute that to?

18 MR. WILEY: The other category is mainly interchange
19 purchases that we would purchase from outside of the state of
20 Florida from other utilities. That is the big part of that 13
21 percent block. And as the pie expands for the next ten years
22 and the number of kilowatt hours that we produce gets larger,
23 even though the amount of energy that's produced by other stays
24 closely the same, it just becomes a smaller piece of the pie in
25 the next ten years. So we don't see a reduction in the actual

1 number -- to say it another way, we don't see a significant
2 reduction in the amount of kilowatt hours that are produced by
3 these other things, or by interchange, we just see that it's
4 not growing. And, therefore, in future years it becomes a
5 smaller piece of the pie percentage-wise.

6 COMMISSIONER CARTER: Follow-up, Madam Chair.

7 CHAIRMAN EDGAR: Commissioner Carter.

8 COMMISSIONER CARTER: What about other types of
9 sources of energy, solid waste, you know, hydro, e-grass, is
10 that factored in here on your --

11 MR. WILEY: Yes, sir, that is in that other category.
12 It would be landfill gas, wood chips, hydro, any of the sources
13 of energy that are not in the other parts of this pie.

14 COMMISSIONER CARTER: But what I'm trying to get at
15 is why -- is there some way for me to understand why that's
16 going down? I mean, with all of our expansion and requests for
17 other types of sources for energy, that's going down from 13
18 percent currently to 9 percent. I understand it's probably a
19 greater capacity and demand, but wouldn't that be a greater
20 perspective as well for alternative sources?

21 MR. WILEY: Well, I guess what we're reporting to you
22 is that the plans that we receive through all the ten-year site
23 plans and the knowledge that we have do not show a material
24 increase in this other category.

25 COMMISSIONER CARTER: Thank you, Madam Chair.

1 CHAIRMAN EDGAR: Commissioner Arriaga.

2 COMMISSIONER ARRIAGA: And that statement from
3 Commissioner Carter brings me to the last leg that I was asking
4 you about, because we seem to be trying to motivate the
5 investment in renewable resources in order to break this pie
6 chart into a more equitable issue here. And what we see, as
7 Commissioner Carter has pointed out, is a decrease in what
8 we're trying to promote, that would be a statement that I'm
9 making, and a concern for our staff.

10 Because I don't see in this projection any reflection
11 on the policy that we are setting in this Commission. And one
12 question would be: Two companies have already indicated that
13 they are making or they plan to make important investments in
14 the nuclear generation and I see also a decrease in nuclear.
15 Why would that be?

16 MR. WILEY: That would be the same reason that we
17 discussed for others. Actually, even though people are looking
18 at nuclear options in the future, there are none that are
19 planned. And our data and our numbers do not report any new
20 nuclear units in this ten-year time frame. So we don't reflect
21 any initiatives that are going on by two of the companies in
22 this state to do that.

23 COMMISSIONER ARRIAGA: Would it be fair to say then
24 that next year when you present the slides those numbers would
25 change?

1 MR. WILEY: It would be my fondest wishes to see some
2 nuclear plants committed in the state, yes, sir, so that we can
3 get that green piece of the pie on gas dropped down a little
4 bit percentage-wise.

5 COMMISSIONER ARRIAGA: Well, we share the same
6 concern.

7 MR. WILEY: Yes, sir, we do, very much so.

8 COMMISSIONER ARRIAGA: Thank you.

9 MR. HAFF: Chairman, if it is your pleasure, there
10 are individual utility members in the audience who may want to
11 continue this dialogue, if you wish to do that now, or whatever
12 your pleasure is.

13 CHAIRMAN EDGAR: I think we'll continue that
14 discussion when we call upon them later in the morning. Thank
15 you.

16 Okay. Mr. Wiley.

17 COMMISSIONER DEASON: Madam Chairman.

18 CHAIRMAN EDGAR: Commissioner Deason.

19 COMMISSIONER DEASON: To the other category again,
20 Mr. Wiley. Would it be fair to say that the main driving force
21 of that category is the rather static import capability and the
22 fact that with just the overall growth that we see in demand
23 that it's going to be a smaller portion of the overall
24 generation mix in 2015. Is that a fair characterization or
25 not?

1 MR. WILEY: Yes, it is. The import capability,
2 electrical import capability into this region is 3,600
3 megawatts. And we have contracted roughly 1,700 of that to
4 purchase energy from outside the state, and plus we have about
5 800 megawatts of generation outside the state that is owned by
6 utilities in the state. So that says that we have firm
7 capability, firm energy coming into the state in the amount
8 of -- and these are round numbers, 2500 megawatts, which means
9 there is only about 1100 megawatts more growth for new firm
10 energy transactions into the state as we go through time.

11 COMMISSIONER DEASON: And in the other categories,
12 you said earlier that it includes renewables. Even though we
13 see a reduction in the overall percentage of other, is there
14 not actually an increase in the absolute amount of renewable
15 energy that is going to be produced in 2015 as compared to
16 2006?

17 MR. WILEY: I don't have the answer to that at my
18 fingertips, Commissioner.

19 COMMISSIONER DEASON: Could you supply that to staff?

20 MR. WILEY: Yes, we will do that.

21 We felt that we ought to discuss a little bit more
22 the amount of natural gas that we are using in this state. And
23 when you look at the amount of electrical energy that was
24 produced from natural gas historically we were in the 18, 19
25 percent arena ten years ago. And you can see how that has now

1 grown as of last year to 33 percent. When natural gas was only
2 serving 20-ish percent of this energy in this state, that
3 didn't present a tremendous reliability problem to our region.
4 But now when you look at the projections, we see this going up
5 to above roughly 50 percent by the year 2010. And when some
6 projected coal units come on-line in the 2013 and '14 time
7 period, you begin seeing that our dependence on natural gas is
8 going back down a little bit to a projected 44 percent of the
9 total. That is still a significant source of fuel into this
10 region, and we wanted to make sure that we pointed that out to
11 you today. The net effect of all of this load and resource
12 plan is that we feel that the region does have an adequate
13 resource over this next ten-year period.

14 And so that kind of concludes our presentation on the
15 load and resource plan this morning, and I'll just go right on
16 into the next agenda item, which is discussion of the natural
17 gas pipeline, if there are no questions?

18 CHAIRMAN EDGAR: Okay. I think we're ready.

19 MR. WILEY: I wanted to start off by showing you the
20 main pipelines that come into our region. This map of the
21 pipelines does not show the Southern gas pipeline up in the
22 northeast portion of the state. One of these days that will
23 become significant, but at the moment the pipes that I'm
24 showing you on this map are the significant ones that we are in
25 the process of studying. And what we see here is three pipes

1 on the Florida Gas Transmission network, and those are in red,
2 coming in from the panhandle, coming in from Louisiana and the
3 Texas region. There is quite a network of pipelines to the
4 west of us. But into Florida we see three pipes.

5 One of those pipes -- and, Florida Gas, our
6 Gulfstream people, please feel free if I mischaracterize any of
7 these statistics, but I'm trying to summarize them simply.
8 Those three pipes that are coming into the panhandle are
9 24-inch diameter pipe, a 30, and a 36-inch diameter. So they
10 are not all the same size. And you can see the network as they
11 spread throughout the state.

12 Each one of those little blocks you see in that
13 network are compressor stations where the natural gas is
14 recompressed to keep it flowing down to the end users, so
15 that's what that signifies. The blue line you see is the
16 Gulfstream Natural Gas pipeline that start in Mobile Bay,
17 Alabama, and ends up in Manatee County, Florida, and that has
18 been the newest pipeline into the state. And you can see the
19 proximity of that to all of the power plants in the state. We
20 have shaded in green some of the areas where power plants are
21 concentrated that are utilizing this natural gas. And you will
22 note that the biggest concentration is there in the central
23 Florida area, or that shaded green spot.

24 So with that as some background, when we look at the
25 capacity of these pipelines, at the current time the Florida

1 Gas Transmission, three pipes coming in from the panhandle can
2 deliver 2.3 BCF, billion cubic feet, of gas per day. And the
3 Gulfstream pipe can deliver 1.1 BCF, or a total of 3.4 coming
4 in. And if you recall back to our slide in 2006, we were
5 importing -- excuse me, the amount of generation that was
6 fueled by natural gas was 37 percent of our energy was fueled
7 by natural gas. And so it has taken 3.4 BCF to do that.

8 In 2008, Gulfstream has an expansion, and part of
9 their pipeline within Florida that will allow them to bring in
10 an extra 1.55 BCF. So the total coming into the state two
11 years from now will be roughly 3.5 BCF per day. And by 2008,
12 40 percent of the energy in this state will be produced by
13 natural gas.

14 The FRCC has -- I'm missing something here. Well,
15 I'll go with the flow. The FRCC has begun a study a couple of
16 years ago to look at this. Currently the modeling is the
17 natural gas pipeline, can it serve future generation in the
18 state. That is something that has been historically looked at
19 by the natural gas pipeline and the customer here in Florida,
20 if it is a particular utility. And we depend upon the pipeline
21 operators and planners to ensure that their pipelines can
22 deliver what we need.

23 And in past years we have had them look at our plans
24 and give us assurances that over this ten-year period that they
25 can adequately meet our demands. As the amount of natural gas

1 dependency has increased, we felt at the FRCC that we need to
2 get more involved in that assurance that those pipelines can
3 meet our future demands and not be totally dependent upon the
4 assurances from the pipeline operators that that is the case.
5 And we love our pipeline operators, and we are sure they are
6 very good, but I think that we would be remiss at FRCC if we
7 didn't assure ourselves that this very important transportation
8 of fuel into our region was adequate. I think we would be
9 short-changing our process. And that is why we got involved in
10 this.

11 And while we have begun -- we've worked with some
12 expert consultants to develop a gas flow model. It is a
13 computer model that simulates the transient flow conditions of
14 natural gas hour-by-hour throughout time. And these are the
15 same study techniques that the gas pipelines use when they plan
16 and operate their system. And we finalized this model in the
17 first quarter of this year, but we had to put the study on the
18 backburner for a few months because of some of our transmission
19 activities, and we just cranked it up again, and we are
20 starting the study as we speak.

21 CHAIRMAN EDGAR: Mr. Wiley, from what you have
22 described to us, are you able to obtain the information that
23 you need for the model and to do the study that you have
24 described? I would expect that there are probably, maybe some
25 confidentiality issues that need to be dealt with.

1 MR. WILEY: Yes, Madam Chairman. We have the actual
2 detailed data of the physical pipe system themselves. Once we
3 get into the studies, we might -- and depending upon what we
4 find in our initial studies -- we might need a little
5 additional information that might be very sensitive
6 information. And we will attempt to get that from the
7 customers of the pipelines and from the pipelines if, in fact,
8 our studies indicate that we need that information. So at this
9 point I'm hopeful that we will have no problems in getting
10 that, if we need it.

11 The scope of this study at the moment is that we are
12 going to look at the summer of 2008 with the current and
13 planned system that we have. And then we're going to go out
14 and look at 2010. As you recall, in 2010 we get up to almost
15 50 percent of our energy being produced by natural gas at that
16 time. And what we are going to do in this modeling is we are
17 going to evaluate contingencies, just like we do in our
18 electrical system. You'll be hearing later in our transmission
19 studies how we test our future transmission systems, electrical
20 systems, for outages of certain elements to see if we can
21 withstand those outages and be reliable.

22 We want to do this with the gas pipelines to see if
23 they can still deliver under some strenuous conditions, such as
24 hot loads in the summer, the amount of gas that we need into
25 the state. So our studies are going to look at contingencies

1 such as loss of some key compressor stations throughout. As
2 you recall, looking back at this map, those blocks were the
3 compressor stations. And if you look at that first compressor
4 station up in the panhandle, that station has a number of
5 compressors in it, and I forget exactly how many, perhaps it's
6 eight. But we want to look at the loss of what if that
7 compressor station was shut down for one, two, three days in
8 total because of a hurricane coming through. Or what if two or
9 three of the major compressors in that station went out, what
10 would happen. And so we are going to be looking at those type
11 of what ifs.

12 And, again, referring to this map, when you see on
13 the red one, as you come straight down on the west coast,
14 there's a couple of compressor stations there. And we want to
15 look at those compressor stations and say what if a lot of
16 compression was lost at that, can we get the gas to those units
17 that are in that green-shaded area there in central Florida.
18 Can we still maintain firm gas deliverability under these
19 contingency conditions. So those are some of the things that
20 we are going to look at.

21 But one of the other significant ones that we want to
22 look at is we want to look at a hot spell, and take August. We
23 have a hot dry spell where we have one or two weeks of very
24 high loads. And we want to begin looking at how, if we have
25 some single contingency outages, how could that affect the

1 delivery of gas during these hot spells. So those are the type
2 of things that are interdependency study will be evaluating,
3 and I would expect that to absolutely be finished by this time
4 next year.

5 COMMISSIONER ARRIAGA: A question, please.

6 CHAIRMAN EDGAR: Commissioner Arriaga.

7 COMMISSIONER ARRIAGA: There has been some
8 conversation and some ideas about LNG. How would this effect
9 this alternative problems that we could face in our gas
10 distribution system? I have heard about certain ports, one in
11 Fort Lauderdale, one in Georgia, that will bring in LNG and
12 will probably help alleviate these contingencies. Have you
13 heard about that?

14 MR. WILEY: There is an LNG, whatever they call them,
15 plants or storage devices up in Elba, Georgia. And there are
16 some plans to bring that into the northeast part of the state
17 near Jacksonville. And that, in the future, perhaps, could
18 bring some alleviation to this of having another tie-in, but
19 the tie between that one and these gas pipelines that you now
20 see, there is no tie involved, no interconnection, as we call
21 them. And that could be a solution.

22 As you recall, there was some discussion about
23 putting an LNG port over in the Bahamas and tying it in
24 somewhere down in southeast Florida. Something like that could
25 begin helping the reliability of this pipeline. But that,

1 again, brought on some other problems and concerns that I
2 understand has caused that particular project to be put on the
3 back shelf. I don't stay current on that, but I think it's on
4 the back shelf.

5 But those are the only two, to my knowledge, that are
6 kind of viable for Florida at this time. And as you might
7 know, trying to site an LNG port anywhere on the mainland
8 United States is just a horrendous battle in this country
9 today. In this ten-year time period, I guess I haven't
10 factored in that LNG is going to be a significant thing, based
11 on what I have heard.

12 MR. HAFF: Ken, before you continue, I guess the
13 bottom-line question we have is, you know, you do expansion
14 planning for electric needs into the future. How does the FRCC
15 assure that there is going to be sufficient gas from sufficient
16 sources to meet the considerable increased need for natural gas
17 to fuel the natural gas generators in the next five to ten
18 years?

19 MR. WILEY: The FRCC has never got into supply of
20 fuels, be it oil, coal, or gas. And this study is not about
21 supplies. That's something that I think belongs in the realm
22 of the individual utilities to worry about their supplies. Our
23 concern came about because of how that supply is being
24 delivered into the state. And our concern was we're planning a
25 great transmission system and generation system, and it's

1 reliable, but is this pipeline system one of our
2 vulnerabilities to electric reliability? And that's the answer
3 that we are trying to determine.

4 Another interesting thing that I failed to mention on
5 this slide is that you see the Gulfstream and the Florida Gas
6 Transmission lines, they appear to kind of tie together, and
7 they do at two points. Gulfstream and FGT have
8 interconnections at two points in this system. And please
9 correct me, George, if I'm wrong on that. And in an electrical
10 interconnection, the electrons and the electricity can just
11 kind of flow back and forth each way between two of the
12 companies that own transmission. That is kind of the law of
13 physics.

14 On gas interconnections, it doesn't operate this way.
15 They are not free flowing. Whether or not one company is going
16 to put its gas from its transmission pipeline into another
17 pipeline is an economic, in most cases, determination between
18 those two pipelines. Sometimes they have done it for
19 reliability. And they physically have to go, or they do it
20 remotely, actually, and turn a valve and they get gas to flow
21 from one of those pipelines into the other.

22 The interconnections at this time in our state is
23 that the gas can only flow from Gulfstream's pipeline into
24 Florida Gas Transmission's. The reverse cannot happen. And
25 one of the reasons for that at this time is that the Gulfstream

1 pipeline operates at a pressure here on the mainland of roughly
2 1500 pounds per square inch, and the Florida Gas Transmission
3 pipeline, roughly, is in the 900 pounds per square inch. So
4 you have a 600-pounds-per-square-inch differential. And I know
5 the gas people are sitting back their thinking those numbers
6 are kind of nominal numbers. They could be 1400 and 800, but
7 you've got the concept here.

8 So it is very easy for Gulfstream to reduce its gas
9 pressure from 1500 down to 900 and backhaul, as they call it,
10 into FGT. But FGT can't send its gas to Gulfstream because the
11 pressure is much higher, and they would have to install large
12 compressors at those interconnection points to achieve that.

13 And then there are some other issues of odorization.
14 The FGT system, which serves a lot of residential communities,
15 they odorize their gas, so that if we smell that in our
16 house -- if we have a leak in our house, we can smell it. It
17 is purposefully odorized. And the Gulfstream doesn't have to
18 worry about that and so their gas is odorless. And so that
19 kind of presents another problem when they're interconnected,
20 and when they backflow gas from one pipeline to the other.

21 And so one of the points that I failed to make back
22 on this slide was that we can see that one-third of the gas
23 coming into our state in the 2006 and 2008 pipeline is on one
24 pipeline coming into this state. And obviously the chances of
25 that particular pipe rupturing in the Gulf of Mexico are very

1 slim, there certainly is always the possibility, since it was
2 built by humans. So I think there is a very interesting
3 statistic to look at that our gas supply is dependent upon four
4 pipes, one pipe of which carries one-third of our gas.

5 So these are, again, some of the reasons that we are
6 looking at this to see if we feel that it presents future
7 problems to us. And we obviously have not come to that
8 conclusion, but these were some of the questions that we are
9 putting forward.

10 I'm going to get on to the next area, if anybody has
11 any questions on that.

12 CHAIRMAN EDGAR: I think we do.

13 Commissioner Arriaga.

14 COMMISSIONER ARRIAGA: Thank you. There was a
15 statement that you just made that stayed in my mind. I think
16 you said something like the FRCC does not look into supply of
17 fuels. But don't you believe that the supply of fuels is a
18 proportional -- influences proportionally the reliability of
19 the system? If there is no fuel, a good resource of fuel, we
20 may not have megawatts generated.

21 MR. WILEY: My prediction is that we are going to
22 become more interested in inventories of fuels that utilities
23 might have, such as how much oil do they have in storage, how
24 much coal is in their coal pile at their plant. Because as an
25 extreme example, if one of our major utilities that had coal

1 had a coal pile that was sitting out there, and it only had
2 five days worth of burn in it because they were trying to save
3 money on coal inventories, that would concern us. If they had
4 30, 40, 50-days worth of coal sitting in that pile, that is a
5 good proper inventory level. And certainly that is an economic
6 thing between those utilities and their business model and you,
7 the Commission, in your regulatory model about how much
8 rate-type considerations are you going to give them for having
9 large fuel inventories sitting there. And so I think that that
10 is a business decision between you and the companies, a
11 regulatory business decision.

12 COMMISSIONER ARRIAGA: I guess I was thinking more of
13 the need determination of a specific request. Let's say a
14 company comes in and says we are going to put up a coal plant.
15 Shouldn't we be asking as a Commission, based on probably some
16 statistics that you could provide, where are you going to get
17 your coal from, or where are you going to get your gas from?
18 Do you have a guaranteed supply for the next 10 or 15 years?

19 MR. WILEY: I'm not a fuel expert, but I know that
20 companies have departments that worry about these types of
21 things, and there is a lot of hedging and futures involved in
22 this. And, again, these are the kind of questions that I would
23 highly suggest you talk to them, because they do have their
24 fuel models and what they do. And I just don't get involved in
25 those types of things.

1 COMMISSIONER ARRIAGA: I'm not trying to put you on
2 the spot, I'm trying to educate myself. So I'm sorry if I
3 sound like I'm pushing you or anything like that, that's not my
4 intent. Thank you.

5 MR. WILEY: No, sir. The staff asked me to just
6 summarize the status of the new coal plants that are in the
7 ten-year projection, and if anyone had any questions on these,
8 that the individual utility would answer any specific question.
9 So in order to expedite things, I was just going to give you a
10 very quick synopsis of what the companies have told us at the
11 status.

12 Florida Power and Light is looking at advanced
13 super-critical coal, which is pulverized coal. And they have
14 completed the site study, and they are identifying other sites.
15 And I think the message here is it appears that they are still
16 looking.

17 The Gainesville Regional Utility is looking at an
18 IGCC coal unit of approximately 260 megawatts. And they're
19 looking at estimates on that. So I'm not sure if that is firm
20 yet, but it's in their plan.

21 Progress Energy is actively evaluating two
22 800-megawatt coal units, and they are looking for a site and
23 that has not been determined at this time.

24 Seminole Electric is looking to add a 750-megawatt
25 unit to its existing site, and they're scheduled to have that

1 site certification by 2007 with construction beginning in 2008.

2 And then Tampa Electric is looking at a 630-megawatt
3 IGCC plant at their existing station to be in-service by 2013,
4 with construction beginning in 2009.

5 And then there is a Taylor Energy Center, which is
6 just south of here. FMPA, JEA, Tallahassee, and Reedy Creek
7 Improvement District are looking to be the four co-owners, and
8 this would be an 800-megawatt pulverized coal to come in
9 service by 2012. And I understand that they'll be looking for
10 their certificate of need from this Commission sometime this
11 month, construction beginning in 2008.

12 So that was -- if you have any further questions on
13 it, I would ask you to direct those to the individual
14 companies. I'm just merely reporting this to save a little bit
15 of time and expedite this presentation.

16 Now we're getting into the interesting part of today,
17 and that's our transmission planning process and our studies.

18 CHAIRMAN EDGAR: Mr. Wiley, we found it all
19 interesting.

20 MR. WILEY: Thank you, Madam Chairman.

21 With the advent of the Energy Policy Act of 1992,
22 FERC, as you know, the Federal Energy Regulatory Commission,
23 ordered an Open Access Transmission Tariff, O-A-T-T, and
24 everybody calls it OATT. So I hope I don't slip up and call it
25 OATT. It was approved in 1996, and that changed the landscape

1 on transmission planning in this country, not just in this
2 region. And for almost ten years we had a transmission
3 planning process in FRCC, but it was somewhat restricted by
4 that FERC tariff.

5 In 2004, we began seeing some problems with our
6 transmission, and we're going to get into that when we discuss
7 the Florida Central Study. And when we saw that, we decided
8 that even though we had this FERC OATT in place, which
9 restricted, somewhat, some coordination between companies to
10 plant, we decide at the FRCC that we had to find a way to
11 overcome that. And so our board took some very positive action
12 at that time in 2005, and they approved this, quote, new
13 transmission planning process. The objective of it was to
14 increase the coordination of the transmission planning between
15 the individual owners to make sure that we had a robust
16 transmission network.

17 The process was going to utilize the standards that
18 NERC applies to transmission planning and our standards, and
19 it's going to meet the needs of all the future customers and
20 users of the transmission system. And we would look at the
21 first five years of our planning in a very detailed manner.
22 And the reason for that is that the second five-year period is
23 a little fuzzy, and we still have some time to study it, so we
24 do five years planning in detail.

25 The planning committee in the FRCC, which is a

1 committee of all of our stakeholders in the region, are the
2 owners of this process and are supposed to make it work. And
3 after the study they are to identify any needed transmission
4 projects that the owners haven't identified.

5 So as we study it through the FRCC process, if we see
6 a need for a transmission line and one of the owners of a
7 transmission system hasn't identified it, we are going to point
8 that out, and then we're going to report to our board that here
9 is a project which we identified as FRCC, and it's over here in
10 this company's territory, and they have or have not committed
11 that that is a good plan and they will adopt that.

12 If they say, yes, we agree with you, there is no
13 problems. If they say, no, we disagree with you, we still
14 report that, and we report the fact that they disagreed with
15 the FRCC planning process. So the net effect is our board ends
16 up approving something. And they could approve a plan that one
17 of the members didn't particularly care for. And we do it
18 through our governance system.

19 If there are any minority views expressed by anybody,
20 those are reported and put in the report. And, ultimately,
21 this -- well, this process is done, when we're talking about
22 study results, in an open process. We post public notice that
23 we are having a discussion at our planning committee, our board
24 of directors meeting on the results of these studies, and the
25 public is welcome to come in. And after the discussion, then

1 we ask them to leave for our normal business.

2 And this has been very innovative. It's the first
3 time we have ever tried something like this. And we post the
4 results on our public website at FRCC, and we send them here to
5 the Commission. And, by the way, your staff has been very
6 involved in this process in terms of hearing the discussion at
7 our planning committee meetings, they attend our meetings, and
8 they have become vocal, and they do represent this Commission's
9 interest.

10 And having read the Grid Florida discussion, I know
11 that there was some discussion that some of you Commissioners
12 had about staff being attentive to the transmission planning in
13 this state, and let me assure you that they are carrying out
14 the wishes of this Commission.

15 And, by the way, if any member doesn't like what the
16 FRCC recommendation does, they can request a dispute
17 resolution, and we have a process in there that we'll actually
18 go out and get independent evaluators to make evaluations on
19 it. So it's a pretty open process.

20 CHAIRMAN EDGAR: Commissioner Arriaga.

21 COMMISSIONER ARRIAGA: Let me stop you there for a
22 minute. At the end of the day, one of the members does not
23 agree, you go through the dispute resolution, still doesn't
24 agree, is the member obligated to comply with your request?
25 What happens?

1 MR. WILEY: At this point with this process, no, they
2 are not obligated to comply with this request. Now, having
3 said that, if the recommendation to build a transmission line
4 was because it was needed to solve a reliability problem, in
5 other words, meet our reliability standards, if that was the
6 case, then we would send you a copy of that report with our
7 board's endorsement that these projects are needed for
8 reliability, and we would put that on your doorsteps.

9 Because you have the authority, and you know we
10 almost got there today on this subject, we almost did.
11 Unfortunately, we did not, and actually that was kind of part
12 of that process, where we identified needs for reliability, but
13 you are the enforcer. I don't ever see in the transmission
14 planning arena in the next few years that FRCC is ever going to
15 be in an enforcer position as long as this Commission has its
16 enforcement authority.

17 COMMISSIONER ARRIAGA: Okay. Thank you.

18 MR. WILEY: Now, let's get down to the actual
19 studies. I know that you're aware that your staff is placing a
20 lot of reliance on the studies that the FRCC does so that they
21 can utilize the results of those studies in their report that
22 they will be recommending to you that is due to the Florida
23 Legislature and the Governor next March 1st. So in that
24 regard, we're going to discuss three of the studies that your
25 staff, you know, do have the results of and that will play a

1 part in the report that they send to you to meet your
2 legislative or statutory obligation, and those are broken down
3 into three categories.

4 One of them is the ten-year transmission reliability
5 study, then we have one we call an interregional transmission
6 study, and then we have a Florida Central Coordinated Study.
7 And these three reports and studies will be the basis that your
8 staff will begin its analysis as required by the statute that
9 was passed this year.

10 Looking at the ten-year transmission study, what we
11 do is combine, once a year, all of the individual utilities
12 transmission plans and we put them in our model. And then we
13 jointly -- and we have a committee structure, by the way. We
14 bring all the transmission planners together of all the
15 transmission owners, and they jointly, with the assistance of
16 my staff, which I have two qualified -- and I'll mention them
17 later when we get to the Florida Central Study that assist in
18 this matter -- and they test this state system against the
19 reliability standards that we are required to follow by NERC
20 and by our own standards. And at the end of the day -- well,
21 we test those in three basic tests.

22 Some of the planning engineers out there are cringing
23 with my words here, but I understand this, and if I can I know
24 ya'll can. The first one is what we call a single-component
25 outage where we go in and model taking a generator out, or a

1 transmission line out of service and looking to ensure
2 ourselves that if that happens that there is no loss of
3 electrical demand anywhere. In other words, you can't lose
4 load for having a single outage.

5 The second area is multiple. Let's look at the
6 outage of a couple of things, of a generator here and a
7 transmission line there, or two generators here, or two
8 transmission lines, or loss of something of a right-of-way that
9 has two transmission lines on that same right-of-way. And
10 under the NERC standards, we can lose load under that as long
11 as it is controlled and that we can get back quickly and pick
12 up that load. But this standard allows us to lose some load in
13 a controlled fashion.

14 And then we look at extreme cases of highly
15 improbable things, but they could happen. What if we lost the
16 entire power plant, a major power plant, or what if we lost
17 both 500 kV transmission lines coming into the state. And we
18 test those, and we make sure that when those things are modeled
19 that we don't see it cascades load into a blackout throughout
20 the whole state. It might take out one small portion of the
21 state, but it's not going to cascade out and cause the entire
22 state of Florida to go into a blackout. So it's kind of a
23 controlled area-wide blackout, not a state blackout.

24 And I have to admit, these are very extreme things.
25 You know, they will probably never happen, but we do test them

1 and make sure that if they ever happen we have a mechanism that
2 can control it. And we're not required to build under the
3 standards to do anything on that, but just prudence says that
4 we need to study that.

5 So that's what our ten-year study does, in short.
6 And the net effect is that in the ten years going forward that
7 we meet all the reliability standards with a few exceptions in
8 the Florida central area, and I'm going to discuss that in a
9 moment.

10 The next study we do is an interregional study, and
11 this is between us and the Southern Company, which is in
12 Georgia/Alabama. And the purpose is to look at the amount of
13 import, what is the maximum amount of import that we can bring
14 into Florida from the north reliably, and that's the key word,
15 reliably. And, also, how much can we export to the Southern
16 Company reliably.

17 And we do this study once a year to determine the
18 answer to those questions. Last year's study determined that
19 we can import during the summer months of this year 3600
20 megawatts into Florida reliably, and we can export 13. This
21 coming winter we can import 3700 megawatts into the state, and
22 we can export 17. A study is just about to be concluded.
23 Again, looking at next summer and next winter, and we
24 anticipate seeing the results of that shortly, but this is the
25 ones that we have now. And, by the way, we don't expect those

1 numbers to change significantly at all.

2 MR. BALLINGER: Mr. Wiley -- I'm sorry, Tom
3 Ballinger.

4 MR. WILEY: Yes, sir.

5 MR. BALLINGER: Just real briefly, I think I know the
6 answer, but can you explain why there is a difference between
7 export and import? Why the numbers vary.

8 MR. WILEY: John Odom works with me.

9 John, if I get too crazy here you might have to help
10 me. But, basically, Tom, it has to do with the fact that there
11 is not a lot of voltage support when we're trying to send the
12 power to the north into the areas. And I think that's the very
13 simple answer. And I would be glad to get my experts that
14 understand this stuff to give you a more detailed understanding
15 so that you can truly understand the electrical engineering
16 aspects of it.

17 MR. BALLINGER: That's fine.

18 MR. WILEY: Thank you.

19 MR. HAFF: Before you go on, can I ask another
20 question along that line. You say you study the summer and
21 winter import and export on an annual basis. Other than adding
22 more transmission lines between Southern and FRCC, what could
23 cause the import and export values to change from year to year?

24 MR. WILEY: Well, the addition or the retirement of
25 power plants on either side of the border that's giving you

1 voltage support could be one of the areas, or perhaps load
2 growth north or south of the immediate border itself, or some
3 transmission line additions on either side close to the border.

4 MR. HAFF: Thank you.

5 MR. TRAPP: I just can't stand it, let me jump in and
6 ask one myself, if I might.

7 Ken, are you aware of anything that we could do in a
8 cost-effective manner that would increase these capabilities?
9 I mean, are there opportunities for additional imports that
10 would warrant some improvements to these transmission import
11 limits?

12 MR. WILEY: Bob, the only thing that I'm aware of
13 that would give you any significant increases is to build new
14 500 kV lines, and those lines would have to be, at a minimum,
15 to give you any significant increase into the state, would have
16 to be to go down as far as the central Florida area, at a
17 minimum, and go all the way up to the Atlanta area of Georgia
18 before you could get any significant increase in that 3,600
19 megawatts. But we're talking about multi-hundreds of millions
20 if not a billion or two dollars for something to give you more
21 import.

22 CHAIRMAN EDGAR: And before you go further, I think
23 we have a question from the bench.

24 Commissioner Arriaga.

25 COMMISSIONER ARRIAGA: Thank you. And this is for

1 Mr. Trapp.

2 You and I have discussed in several opportunities
3 some comments made by FERC regarding our potential isolation as
4 a peninsula with interconnection issues. This would seem to
5 show that FERC may have a point. What would you think?

6 MR. TRAPP: I think Mr. Wiley can probably address it
7 better than I, because he has had more direct contact with the
8 Department of Energy and FERC on this matter. But it's my
9 understanding that we currently have about 1,000 megawatts or
10 more of available capacity on the transmission line that is
11 currently used for economic opportunities to purchase power and
12 to sell power to our north, but that that line is not filled
13 up. And to the extent that the line is not filled up, that
14 indicates to me that there is no problem in terms of a
15 transmission constraint at the Florida border.

16 I think that information has been shared with the
17 Department of Energy, who has recently, you know, done at least
18 an initial study of potential constraint areas in the nation.
19 And their initial draft report, based on the consultant's data
20 that they were using, they identified Florida as one of the top
21 ten problem areas. I think when the real information, which I
22 think Mr. Wiley through the FRCC provided to them, was known,
23 they changed their position on that very quickly and we are no
24 longer identified as a real area of concern. So I think it is
25 a matter of getting the right study done with the right

1 information. And my perception is that we really don't have a
2 problem at the border.

3 MR. WILEY: The next item to discuss is our Florida
4 Central Coordinated Study and Re-Study. In 2004 we began
5 seeing some overloads on the transmission line between Lake
6 Agnes and Osceola in our operational mode, and our planning
7 studies had never shown that this was a possibility. And we
8 had to sit back and ask ourselves what caused this, why didn't
9 we see this in our planning studies? And, by the way, the
10 overloads, we do have mechanisms to be able to back them down
11 and get them out of the overloaded condition. So we have
12 operational work-arounds that we employ, but we did have them.

13 And what we found is that, looking at our process,
14 that every year in April everybody gives us their transmission
15 plans, and we put them together and we test them, and we talk
16 about them, and we end up with a working model of everybody's
17 plans for the next ten years for the entire region. And then
18 everybody takes that FRCC model of the transmission system and
19 goes back to its shop and does its studies and things that it
20 does with those studies.

21 And some of the things that individual companies
22 would do, they would use that particular model to site their
23 own generation, they would use that model to study an
24 interconnection from a merchant plant, they would use that
25 model to study a firm transmission request from somebody to use

1 their transmission. And what we found is that after our
2 database was put together, and it is complete on June 1st ready
3 for everybody to use, that it became a stale database. Because
4 as you go through the months, after you put it together, people
5 change plans because planning is a very dynamic process in
6 every company. And those plans weren't getting reflected back
7 in the model that all of the transmission owners were using for
8 all of their individual study uses.

9 And so as you can expect, by the time you get to the
10 8th, 10th, 11th month, that that model has probably got a lot
11 of things in it that were no longer anybody's plans, and yet
12 the model hadn't been updated. So we learned a hard lesson
13 about this stale databank. And we have since corrected that.

14 We now have some mechanisms in place to make sure
15 that at least once a month that if anybody had some
16 transmission plans or generation plans changed in that ten-year
17 model, at least monthly it will be updated, and everyone will
18 be notified of those changes. So now they can go back -- and
19 the worse out-of-date would be it's only a month out of date.
20 And so that was kind of the problem definition of how we got
21 into what we now call the Florida Central Coordinated Study.

22 Initially, nine utilities got together to study this.
23 The FRCC had just started its new transmission planning
24 process, but these utilities didn't wait on that, they needed
25 to get out and start looking at how do we solve this problem.

1 And by the time they finished that study, we found out that we
2 had this stale database problem. And so the recommendations
3 that came out of that initial study by these nine transmission
4 owners was no longer valid.

5 The FRCC Board of Directors took very positive action
6 when we found out about that in, I believe it was May, and they
7 directed the planning committee to go have a re-study of this
8 area, and they wanted it to begin on June 1st, which is when
9 the new database model was ready, and complete that in one
10 month. And the utilities did do that. All the transmission
11 owners, they sent their planners to our offices and our
12 planning staff, which is John Odom sitting next to me, who is a
13 very qualified transmission planner, and Fred McNeil, who is --
14 I have to recognize Fred. Fred is truly one of the best
15 transmission planning engineers in the state in terms of the
16 knowledge and history and institutional memory. And we are
17 very lucky to have them on our staff as independent
18 transmission planners.

19 And so Fred and John worked with all the other
20 planners, and one month later we came up with the
21 recommendations in this Florida Central Re-Study. And to
22 summarize, those recommendations were to rebuild 76 miles --

23 CHAIRMAN EDGAR: Mr. Wiley, I'm sorry, I hate to
24 interrupt, but Commissioner Carter has a question, and I may
25 have a question, too. So I'm going to ask you to slow down for

1 just a moment.

2 COMMISSIONER CARTER: Thank you, Madam Chairman.

3 In your earlier discourse with Commissioner Arriaga,
4 you stated -- I think initially you stated that it costs about
5 a billion dollars to build these 500 kV lines from Central
6 Florida up to the Atlanta area. And as you proceeded further
7 in your discourse, I think you said that there is no additional
8 need in Florida for additional power. Is that where you left
9 that, saying that there was probably no need to build that
10 system?

11 MR. WILEY: No, sir, I would not want to leave that
12 impression. I think the impression I wanted to make was that
13 in order to increase the amount of import into the state
14 significantly, you would have to build a line of that magnitude
15 which would cost that much money. And I think then that does
16 become an economic question as to it. From a reliability point
17 of view, the lines that we now have we are operating very
18 reliably with them, and we do not need that extra line for
19 reliability purposes. But perhaps one of these days there
20 might be an economic advantage to building that line, and we
21 don't get into that arena.

22 COMMISSIONER CARTER: Thank you.

23 MR. WILEY: The Florida Central Study basically said
24 let's build 76 miles, rebuild them, and let's construct 78
25 miles of new lines. And the study went on to recommend that on

1 some existing right-of-ways, where we're going to be tearing
2 the existing lines down and building up new lines, that we
3 should build those lines for a capacity of 3,000 amps, which is
4 1200 megawatts, versus 2000 amps, which was 800 megawatts. So
5 that's the way our study recommendations went, because we felt
6 that looking at some of the economics at the time of the study
7 that was a prudent thing to do was to build all lines at 3000
8 amps. And this is just a geographic representation of some of
9 the lines that we discussed in our study. And I won't go into
10 that, but I wanted you to have it for your reference.

11 And so when we looked at the 3,000-amp lines, if all
12 of those lines were rebuilt and are built at 3,000 amps, the
13 total project cost of this down in the right-hand corner was
14 \$417 million. The next step we took was to obtain commitments
15 for everybody to build each of those projects and to conduct
16 some more detailed engineering evaluations and detailed cost
17 estimates. And we began very extensive negotiations with all
18 the parties that were involved. And one of the issues in the
19 negotiations was, on one of the lines, was to build that line
20 at 2,000 amps or build it at 3,000 amps. And I'm not going to
21 get into all the details, but let me say that the net results
22 of our negotiations were that one of the lines that was in
23 question, which is owned by OUC, that Orlando went back and did
24 some detailed field studies, engineering studies, and
25 determined that the line that we were holding them responsible

1 to build, that they could accomplish building a 2,000-amp line
2 for \$33 million. And that was a very significant cost
3 differential between what our original estimates were and -- as
4 a matter of fact, it was a \$140-million difference between
5 that. And so after seeing that we could accomplish what
6 Orlando's proposal was in a sooner time frame, we could begin
7 getting this line and portions of this line in service earlier
8 than projected in the prior estimates, we accepted their
9 proposal as being a very sound proposal, and that is that they
10 would rebuild their line -- excuse me, they would re-conductor
11 their line and have some portions in service by June of 2008.

12 CHAIRMAN EDGAR: Mr. Wiley, what were the time
13 frames, approximately, for the two different cost estimates,
14 and can you tell us a little bit about what the reason is for
15 the significant difference.

16 MR. WILEY: The cost estimates were developed in
17 the -- they originally began looking at them in the first study
18 that the nine utilities made, so I'm sure they started looking
19 at them then. When we got involved in our re-study, which was
20 June 1st, and we began putting things to paper, and that's when
21 we first saw these numbers, so I think that the numbers were
22 probably developed in the first half of this year, let's put it
23 that way. And the entire study focused on the fact that the
24 line on that particular right-of-way was going to be rebuilt.
25 I think there was some assumptions going in by the engineers at

1 that time that they probably couldn't increase the capacity of
2 the existing line.

3 And what Orlando did, before they brought this to the
4 service, is they got their consultants out over a period of
5 months to actually do field surveys on this line and look at it
6 and to come back with an expression to OUC, can this line be
7 reconducted. Can we do something less than tear it down and
8 rebuilding it. And that particular study was reported to us
9 approximately a week and a half ago when their consultants came
10 back and said, yes, we can reconductor that line, and we can
11 have 2,000 amps capability in that line. So that particular
12 cost estimate was about a week and a half old to us.

13 CHAIRMAN EDGAR: Commissioner Arriaga.

14 COMMISSIONER ARRIAGA: A few slides back -- you don't
15 have to go back, I'm just going to remind you. I think you
16 said that it is prudent, or prudent considerations suggested
17 that a 3,000-amp line should be built. I guess you are now
18 approving, your board is approving a 2,000-amp line. Is that
19 less prudent -- still prudent, but less prudent?

20 MR. WILEY: Yes, sir. We felt that was very prudent.
21 When the board made the recommendation to go to 3,000 and
22 approved that recommendation, the cost difference between a
23 rebuilt line at 2,000 and 3,000, that cost difference was \$65
24 million. Which 107 million to build a 2,000; 165 -- excuse
25 me -- 73 million to build it. So that was an increase of 61

1 percent. And the board knew this and they said it is still
2 prudent to do that, because you're going to use up that
3 right-of-way forever by what you are doing. When Orlando came
4 back with this \$33-million solution, then now you are talking
5 of going from \$33 million for a 2,000-amp solution to 173
6 million. Well, that is a 424 percent increase in cost to
7 achieve 50 percent more capability. And that just was not an
8 economical prudent thing to do. And that's why the board did
9 have a meeting and they did readjust their recommendation to
10 take this into account, that they felt that the \$33 million was
11 the prudent thing to do. And the good thing about that is this
12 particular right-of-way is still preserved at this time. At
13 some point in the future, if there is a rebuild necessary, it
14 can still be done, because they are using existing structures
15 and not destroying the right-of-way.

16 COMMISSIONER ARRIAGA: And that brings me to the next
17 question, your last comment. Let's put ourselves three or four
18 years from now. Are we going to be facing, because of this
19 decision now, an overload situation in the same line three or
20 four years from now?

21 MR. WILEY: I can't say with a surety that you're
22 going to or you're not going to. Sometime in the next
23 five-year period, you could be facing that. When I say five
24 years, five years after this study period. So sometime after
25 2012, in that next five-year period, you could be doing this.

1 But this planning thing is so dynamic that there could be, you
2 know, we're talking of some other rather large transmission
3 lines in this region, in this area. And if that comes to
4 fruition, that could make this problem go away entirely. But
5 right now that's speculation, and those aren't, quote, plans.
6 That's talk right now and thinking. But, yes, you could do
7 that.

8 But when I look at it, when I look at the fixed cost
9 of a \$170-million investment, you know, if you were to use, you
10 know, 18 percent annual fixed cost, for 173 million, that is
11 almost 25 to \$30 million a year to support that. I used to be
12 an engineer in economics back in my very, very young days, and
13 if I can spend \$30 million today to stave off an investment
14 five years, and that new investment would have cost me almost
15 \$30 million a year, that's kind of -- in an engineering economy
16 point of view, that is kind of a no-brainer. And so that's
17 kind of the way I looked at it personally. That was a very
18 personal comment right there, and not FRCC.

19 COMMISSIONER ARRIAGA: And I'm very sensitive to the
20 economic reasoning that you are putting forth, but at the same
21 time I look at the other companies. They're building up to
22 3,000 amps. Isn't that costing them that kind of money at the
23 same time? I mean, I'm just trying to figure out the prudence
24 issue here. We are allowing one company to go down in its
25 standards, but the other companies are building to 3,000.

1 What's the difference?

2 MR. WILEY: I've asked Progress Energy, and I know
3 Sarah Rogers is here today to talk for them, but I think she
4 wouldn't mind me saying this. I asked her that question, what
5 are their incremental costs based on their engineering
6 estimates. And her incremental cost on her rebuilds and her
7 new line is in the area of 15 to 20 percent. And I would ask
8 you to ask her that question, but these are the ranges she was
9 talking about. And that is in the area of prudence. You
10 just -- why not throw another 15, 20, or 25 percent in to get
11 50 percent more capability. But when you are looking at 400
12 percent, that's a difference. And so I would really like for
13 you to ask the utilities that, because I don't want to put
14 words in their mouths.

15 COMMISSIONER ARRIAGA: Okay.

16 CHAIRMAN EDGAR: Mr. Wiley, I think we have one more
17 question, or more than one.

18 Commissioner Carter.

19 COMMISSIONER CARTER: Thank you, Madam Chairman.

20 You were saying why would you spend that amount of
21 money for a 50 percent increase in capacity. Did you juxtapose
22 that against the increase in the percentage of demand over that
23 same time frame?

24 MR. WILEY: I think I understand --

25 COMMISSIONER CARTER: You're talking about going to

1 the 2,000-amp versus the 3,000-amp and you said that that would
2 have been a 50 percent increase in cost. I was asking you did
3 you juxtapose that against the percentage increase in demand
4 over that same time frame. Do you understand that?

5 MR. WILEY: I think I do, Commissioner Carter. I
6 guess what I would say when I'm looking at demand, you're not
7 talking about the total demand in the region, you're talking
8 about the actual flow or the demand flow on that particular
9 transmission line.

10 COMMISSIONER CARTER: Madam Chairman? Let me kind of
11 break it down where I'm going to here. You were talking about
12 a standardization for prudence for a 3,000-amp capability,
13 right? We're there, right? And you said that in order to do
14 that for, I guess it would be the utility that went to 2,000
15 amps, that would have been a 50 percent increase in cost.

16 MR. WILEY: A 50 percent increase in capacity of the
17 line.

18 COMMISSIONER CARTER: Capacity.

19 MR. WILEY: Yes.

20 COMMISSIONER CARTER: Oh, so it would be a 50 percent
21 increase in capacity, but how does that increase of capacity --
22 that means instead of increasing the capacity by 50 percent,
23 you reduced it by 50 percent, but how do you juxtapose that
24 against the percentage of demand? I mean, this is probably one
25 of the fastest growing areas in Florida, wouldn't you agree?

1 MR. WILEY: Well, yes. The Orlando area is; yes,
2 sir.

3 COMMISSIONER CARTER: And this is Orlando we are
4 talking about?

5 MR. WILEY: Yes, but I can't relate one-for-one the
6 growth of demand in the Orlando area to the transmission
7 loading on that particular line. That would be very hard to
8 do. So, I guess I can't answer your question, because I don't
9 know.

10 COMMISSIONER CARTER: Okay. That's fair. Thank you.

11 MR. WILEY: I'm sorry, sir.

12 COMMISSIONER CARTER: Thank you.

13 MR. WILEY: Madam Chairman, unless you have more
14 questions, I'm not going to go through any of the other slides
15 on the Florida Central Study. I think you know the net result
16 is that the FRCC feels that all the lines have been committed
17 to by the companies that we feel meets the reliability needs
18 through 2012 in this area.

19 CHAIRMAN EDGAR: Let me see if we have got some
20 questions. I think we do have some from our staff.

21 MR. HAFF: Yes. Thank you.

22 I guess the one thing I keep thinking about is the
23 Central Florida Study just went out to 2012, in my
24 understanding, and I guess the transmission system additions
25 under the Re-Study for Orlando looks like between 2008 and

1 2011. So I guess in my mind you're just finishing the upgrade
2 to 2,000 amps by 2011, and you have only studied out to 2012.
3 And my understanding is you are going to study out the full ten
4 years starting the end of this year the beginning of next year,
5 is that correct, you will go out the full ten years?

6 MR. WILEY: Next year we will go out that far, that's
7 correct.

8 MR. HAFF: And I guess, I don't know if I'll call it
9 concern, but what if you go out beyond 2012 and it's shown that
10 these exact lines that you have just upgraded to 2,000 amps are
11 overloading in, say, 2013, and you just completed upgrading to
12 2,000 amps. Aren't we back to where we started and having to
13 go back and look at rebuilding the lines that we just finished
14 upgrading?

15 MR. WILEY: Mr. Haff, yes, that is a possibility. My
16 staff has looked at this, they have gone out and projected two
17 more years out to 2014. And we haven't seen anything that
18 concerns us using the model that we have today. Now, as you
19 know, everybody puts new plans in continuously. And I guess
20 our only expectation would be that any new transmission plans
21 that we're going to get in the next one or two years is going
22 to help the situation, not harm it, in terms of pushing the
23 problem out to future years.

24 MR. BALLINGER: Madam Chairman, may I?

25 Mr. Wiley, I had a question. Would it be fair to say

1 that a lot of this problem is because of the bulk of generation
2 being built in Polk County and Hardee County where there are
3 sites available, and the load being in the Orlando/Kissimmee
4 region?

5 MR. WILEY: That's certainly one of the major
6 contributing factors.

7 MR. BALLINGER: And if we see generation plans, for
8 example, nuclear units or something of this nature, large base
9 load plants possibly again in that region, is that going to
10 exacerbate the problem, does it look like? Or is there
11 something we need to look at in a need determination when the
12 utility comes in?

13 MR. WILEY: I think if any additional generation is
14 located in that tri-county area that you certainly need to make
15 sure that the transmission associated with that generation
16 addition does not aggravate this problem. And we will be
17 looking for that, also.

18 MR. BALLINGER: Okay. Thank you.

19 MR. TRAPP: If I might, Chairman.

20 CHAIRMAN EDGAR: Mr. Trapp.

21 MR. TRAPP: Mr. Wiley, I want to get clear for the
22 record what some of this discussion was just about in response
23 to Mr. Haff's questions. It's my understanding that the FRCC
24 has committed to specifically look at the Central Florida area
25 again in the years beyond 2012, and that that review will take

1 place expeditiously this spring, I believe?

2 MR. WILEY: That's correct, Mr. Trapp.

3 MR. TRAPP: So we are going to keep our eye on this
4 problem with respect to the reliability impacts?

5 MR. WILEY: We absolutely are going to keep our eyes
6 on this. And I think when we get to my last slide, you're
7 going to hear more about this.

8 MR. TRAPP: Oh, I'm sorry, I didn't know you had not
9 gotten to your last slide. Maybe I should stop and let you get
10 to your last slide.

11 CHAIRMAN EDGAR: But before you do, you mentioned
12 earlier in your discussion on this item, Mr. Wiley, I think in
13 May you used the phrase "due to a stale database." Could you
14 speak to that a little bit more and what steps have been taken
15 so that we won't have a stale database in the future to do
16 analysis with?

17 MR. WILEY: Our transmission models, we know
18 everybody's plans and what they plan to build. We know their
19 existing system and we know their additions and deletions for
20 the next ten years. We have listed all of those additions and
21 deletions that they have noted line item by line item. And
22 every month we -- well, we are expecting each company that if
23 any of those projects change, the data when they are supposed
24 to come into service has been changed, or the project has been
25 eliminated, or something new has been added, we expect them to

1 notify us immediately. And we will notify all of the people
2 using this database, hey, here is the new database with these
3 changes.

4 In order to ensure that everyone does this once a
5 month, we will be polling each of these people and saying, hey,
6 we haven't heard from you, do you have any changes to your
7 database. And we hope that we will get good feedback from
8 that, but we are not counting on that solving it. Each month
9 when our planning committee meets, we are going to give our
10 planning committee what I call a report card that says, here
11 are the projects that were changed or added. And by the way,
12 we didn't get any changes from these transmission owners, and
13 we are going to list them.

14 And we are going to be on record in our minutes of
15 who did and who did not make changes and when they made them.
16 So that if we get down the road and we find out that somebody
17 made a change six months ago and didn't report it, that we can
18 hold them accountable in some manner for the fact that they
19 didn't report their changes. So these are the steps that we
20 have taken.

21 The other step that we have taken is that you know
22 that under the OATT that people can request firm transmission
23 service or interconnections with any transmission owner. And
24 when that request comes in, they are required, each company is
25 required to post that on a website, a public site, which they

1 call OASIS, and every week we collect all of those OASIS
2 requests, and we ship them out to all of our members so that
3 everyone is aware of what everybody's request is, because
4 things that happen in that request could change the database
5 also. So these are two of the measures that we have already
6 implemented.

7 CHAIRMAN EDGAR: Commissioner Deason.

8 COMMISSIONER DEASON: Mr. Wiley, I have a question,
9 maybe it's a broader question, and if now is the time to answer
10 it, fine, if not we can maybe address it later. But the
11 question is this. There is an interplay -- you would agree
12 there is an interplay between the siting of cost-effective
13 generation and the availability of transmission infrastructure
14 to support that generation. I mean, that's just, I guess,
15 Engineering 101 there.

16 Now, the question that I have is if there is a
17 scenario where a case can be made for the siting of a
18 cost-effective base load unit in a certain location, but for
19 that unit to be constructed there and to provide reliable
20 dispatchable energy into the system there needs to be an
21 upgrade in their transmission line. But the transmission line
22 is owned by Utility B and the generation is going to be owned
23 by Utility A. Now, does the FRCC get involved in that type of
24 situation to look at what I would call optimal planning and
25 how, if there needs to be cost sharing under that scenario, or

1 just explain to me what those procedures are and how that
2 particular -- if that particular scenario were to arise, how
3 the FRCC would work to try to make it cost-effective for the
4 state of Florida, or at least for peninsular Florida as a
5 whole.

6 MR. WILEY: Currently, we do not. Currently, the
7 scenario would be that the generator owner who was trying to
8 site that, it would run studies using the FRCC database to
9 determine what the optimum solution was for them, and does that
10 impact any other transmission owner. And they make that
11 determination, and then they contact the other transmission
12 owner that they think might have been impacted, and then those
13 two get together and study it and determine who's going to do
14 what and who's going to pay. And that is how the existing
15 mechanism works.

16 COMMISSIONER DEASON: Does that process work well, or
17 has there ever been the need to elevate that to the FRCC or
18 else -- or no?

19 MR. WILEY: Commissioner Deason, I'm going to save
20 that as my last slide to tell you where the FRCC is going.

21 COMMISSIONER DEASON: Thank you.

22 MR. WILEY: Madam Chairman; I'm trying to get to my
23 last slide. I'm sure you're tireder than I am.

24 Bob talked about the DOE's congestion study, and he
25 asked me if I would say a couple of words about it, but the

1 Energy Policy Act of 2005 required DOE to run a study to
2 determine if there were any major congested transmission
3 corridors. The preliminary results were shared with the FRCC
4 and a day later with your staff by the Department of Energy
5 personnel. And in discussing it with us, they told us that our
6 interface with the Southern Company was one of the more
7 problematic corridors in the eastern interconnection.

8 And when I saw those words, I just told them I didn't
9 think that was the case. I kind of live here, and it's our
10 business, and, of course, I'm looking at it from a reliability
11 point of view. And I said I just don't think that is true.
12 And I think if you leave that statement in there, you know, I'm
13 going to have FERC down here in Florida, and we and our
14 Commission, you know, like to keep FERC in Washington, and we
15 need to talk about this. So we did. And we had a lot of
16 dialogue and correspondence back and forth with DOE to try to
17 show them that they had made some erroneous assumptions in the
18 study that said that we were the more problematic interface.

19 And I'm happy to report that the results of our point
20 out of some of these erroneous study assumptions, that the
21 final report did not indicate that our interface was a
22 significant issue. And we, Bob and I, think that that issue
23 has been put to bed for the moment with FERC -- with DOE. But
24 I do want to remind you that the law requires DOE to run this
25 study every three years. And I would hope that the FRCC in the

1 future when I'm not around and your staff will bird-dog DOE to
2 make sure that their next study doesn't have any erroneous
3 assumptions in it again.

4 Very briefly, Bob wanted me to talk about two new
5 studies that we are going to be doing, and one is the Taylor
6 Energy Center. Currently, the participants in the Taylor
7 Energy Center have asked Progress Energy, you know, to study
8 how are they going to interconnect that plant to Progress'
9 Energy, and Progress Energy and Florida Power and Light are
10 affected parties, and they are looking at that. And when those
11 two companies and the participants in the Taylor Energy Center
12 boil down to what the best couple of alternatives are that they
13 are considering, at that point in the process that study is
14 going to come into the FRCC transmission process, and we are
15 going to, through that process, assure that it meets all of our
16 reliability standards. So I did want to report that that is
17 going to be happening and hopefully by the end of this year.

18 The next study that --

19 MR. HAFF: Ken, before you finish, I'm sorry, I have
20 a question.

21 The need filing for this unit is due here in a couple
22 of weeks. And I guess I'm just wondering is there a
23 preliminary assessment of what the transmission cost is going
24 to be as an associated facility for the need for this power
25 plant?

1 MR. WILEY: Michael, I have not got involved in that
2 at all at this point. Michael Kurtz, who is the project
3 manager for this, is here today. And if you would like, you
4 can ask him that later. He said he would be glad to talk about
5 anything to do with it.

6 MR. HAFF: Yes, I would.

7 MR. WILEY: The other study that has been in limbo
8 for awhile is what we call the Northwest Florida Transmission
9 Study, and that was a study between Progress Energy, Seminole,
10 and the City of Tallahassee. And that was put on the back
11 burner when the Taylor Energy Study began. And we just wanted
12 to report to you that that has not gone away, and it will be
13 studied after they determine what transmission is necessary for
14 this new Taylor Plant, because that probably is going to have
15 an impact on the Northwest Florida Study. So I just wanted to
16 let you know that that is still on the back burner and will be
17 resurrected.

18 And now the last slide is what are we going to do
19 given what we have been through these past few weeks and months
20 on the Florida Central Study. Well, let me say some of the
21 things that we have talked about here about when do you get a
22 transmission request for firm service, when does that get into
23 the FRCC transmission planning process. If someone is going to
24 build a generating plant, when does the transmission part of
25 that get into our transmission planning process? How early do

1 we do that?

2 I will be presenting a proposal to my board in the
3 coming month to materially enhance our transmission planning
4 process. And the net of this proposal is going to be that
5 early on, and we're not sure what that means yet, but very
6 early on that the utilities would bring their transmission
7 planning process into the FRCC arena. And we wouldn't just sit
8 back and wait for them to say here are our plans, and here are
9 the firm transmission requests that we have granted, and we're
10 going to start bringing all of that into this process very
11 early. And I feel that we're going to get there very shortly
12 with this type of an enhanced process.

13 I have the commitments of the major, of some of the
14 major transmission-owning companies in the state, from the
15 CEOs, that we need to get there and we are going to get there.
16 And so that is one of the more important things that our
17 organization is going to be doing in the coming months is to
18 enhance this process, and I am shooting for a deadline by the
19 end of this year that that process is in place in our region.

20 So that was kind of an answer, Commissioner Deason,
21 to yours. Some of these things, siting of a plant or granting
22 a firm transmission is going -- if my proposal wins, and I
23 think it has got a 99 percent chance of winning, it's going to
24 come into our process in a very transparent manner early on.
25 And realizing that the utilities still have to deal with the

1 FERC open access transmission tariff. I mean, that's obviously
2 some boundaries we are going to have to live within. But if we
3 find that that becomes a deterrent to what we think is the
4 right thing to do, we will march on FERC and say, hey, this is
5 better than you and what you have got, we would like go to have
6 some exceptions. And so that is the genesis of what we are
7 looking at going forward.

8 The other thing --

9 MR. HAFF: Ken, I'm sorry, before you leave that
10 point, would you envision the enhanced transmission planning
11 process as a supplement to what the individual utilities do or
12 sort of taking over some of that role from the utilities, or
13 how would you envision that working?

14 MR. WILEY: I envision that these individual plans
15 will come into an FRCC process much earlier, and that we have
16 an independent professional transmission planning staff. As a
17 matter of fact, we plan on adding another one next year, that
18 would give us three. And that we would work with all of the
19 individual company transmission planners through our process
20 and with our subgroups to do these studies. Obviously, the
21 FRCC cannot make final decisions on an OATT request, but we can
22 certainly make sure that we are at the table and seeing that
23 the studies are performed correctly, that all of the affected
24 parties are involved in knowing what the results are and being
25 able to comment on them if it impacts them, and that it is an

1 open and transparent process within the transmission planners
2 arena.

3 So that's what it is looking like, and those are my
4 thoughts. These are not my board actions at this time, but I
5 am encouraged by talking with members of my board that we can
6 achieve this.

7 CHAIRMAN EDGAR: Commissioner Arriaga.

8 COMMISSIONER ARRIAGA: Let me go back for a minute to
9 the Slide 48, would you, please. This brings me back to the
10 2,000-amp issue that I have been talking about, because I'm
11 still a little bit confused. The line that goes from McIntosh
12 to Lake Agnes to Osceola to Taft, who are the users, the
13 transmission users on that line? Is it fair to say it is
14 Orlando, Tampa Electric Company, Progress Energy, all of them
15 use that line?

16 MR. WILEY: I think you could roughly narrow it down
17 that the predominant users would be Lakeland, Orlando receiving
18 power out of its Macintosh Plant over there at Lakeland. Some
19 of the power generated down in the West Lake Wales region would
20 be generated by Seminole, Progress Energy, by a merchant plant
21 down there, and some of that would flow on that, so you have a
22 number of users that would be on that line. And I might add
23 vice versa that that same statement could apply or would apply
24 to any of these other lines that connect those two areas.

25 COMMISSIONER ARRIAGA: The red and blue lines?

1 MR. WILEY: Yes, sir.

2 COMMISSIONER ARRIAGA: So there is mixed use here.
3 And we are allowing one line to be built at 3,000 amps, and
4 that seems to be prudent. And the cost associated with that
5 rebuild seems to be prudent and reasonable. But all of a
6 sudden they become unreasonable and probably imprudent because
7 of economic factors, and we allow the 2,000-amp line. I just
8 don't see the reasoning. I'm not clear. And I know we're
9 trying to accommodate economic factors which are very important
10 because we don't want the ratepayer to pay more unnecessarily,
11 but my question then would be is the ratepayer paying more
12 unnecessarily on the 3,000-amp line, because the same company
13 is using both lines?

14 MR. WILEY: Which company is using which line is a
15 very sticky issue. And it's one I'm going to discuss as one of
16 my last points here in a moment. As you are well aware, the
17 historical thing has been if your line is overloaded or needs
18 to be fixed, you fix it. And I might add, historically, if you
19 have to do something on your system to build or rebuild a line,
20 you look at it and everybody does, what is the economic way to
21 do that. And they do make those decisions individually. And
22 everybody is using everybody else's line in this state to some
23 degree. We just have never really studied exactly how much
24 under what circumstances. And this is very -- and I'm not
25 trying to be evasive or anything, but how power flows on

1 transmission line is an extremely technical concept. Even I
2 who used to be in the business of doing that, I lose it a
3 little bit every now and then.

4 And that brings me to my last point, that we are
5 making decisions sometimes of one company doing something that
6 impacts another system. And it might not overload another
7 systems line, but it does add to the loading on it, which
8 eventually could lead to overloading. And that's one of the
9 base arguments that we have been involved in lately is who
10 causes the overloads on lines, transmission lines, and if you
11 are causing a problem, shouldn't you be caused to pay for the
12 problem, since you're causing it.

13 And so this issue of who causes the problem and who
14 should pay for the problem because of their use is truly a
15 knotty issue. And we call that cost sharing. And one of the
16 things that my board will be acting on is to, we have
17 established a cost-sharing methodology task force to try to
18 find a solution to this problem. It's a very knotty one, and
19 it's not going to be an easy one to solve. And they are going
20 to be directing our cost-sharing task force to work in earnest
21 to try to come up with something over the next year. Because
22 if we don't develop one, we can have the best transmission
23 planning process in the world over here, but when it gets down
24 to the question of who's going to commit to pay for it, we
25 could be right back to where we almost were today. And we

1 don't want that. We never want to bring anything to this
2 Commission's doorsteps for you to make our decisions.

3 So we are going to work our hardest to come up with a
4 cost-sharing methodology and to resolve this issue. And as
5 many of you know, the Grid Florida Transmission Proposal would
6 have solved that problem, but there were a lot of other, as you
7 know, concerns in that whole thing. And I'm not saying that I
8 thought that Grid Florida was a good thing or a bad thing
9 because I was ambivalent about it from an FRCC point of view.
10 I might have had some members on different sides of that
11 equation, I'm not sure. So, anyhow, those are two things that
12 our board is going to be taking action on in the near future,
13 and I'm hoping to report back to you some very successful
14 results by the end of this year.

15 CHAIRMAN EDGAR: Commissioner Tew.

16 COMMISSIONER TEW: Thank you, Mr. Wiley. I had some
17 questions about the OATT process that you had mentioned and
18 that if it became an impediment to your enhanced transmission
19 process, that you might find a need to march on FERC, as you
20 said, I think. And I just wanted to ask you that if that does
21 become an impediment and if this process is put in place that
22 you will let us know, perhaps, through an Internal Affairs type
23 process. I know that you are in constant discussion with our
24 staff, but perhaps even elevate it and let us know, so that
25 even if we don't march with you, we are prepared to support

1 that effort or at least file some kind of comments in support
2 of that.

3 MR. WILEY: Absolutely, we would do that,
4 Commissioner Tew. And we would probably be coming to you first
5 asking you to march with us, if we ever got to a point like
6 that. As you know, I believe, this Commission and your staff
7 and the FRCC have always been in lockstep on actions before
8 FERC over the past few years.

9 COMMISSIONER TEW: Thank you.

10 CHAIRMAN EDGAR: Commissioner Carter.

11 COMMISSIONER CARTER: Thank you, Madam Chairman.

12 You were asked by staff earlier about the Taylor
13 Energy Center. You said you had staff with you. I presume
14 these gentlemen here would want to address that, so maybe we
15 could get an answer to that question.

16 MR. WILEY: Yes, sir. This is Michael Kurtz, he is
17 the project director.

18 MR. KURTZ: Thank you. The project participants, all
19 four participants, have members who are very active in the FRCC
20 transmission planning process. And the members both from their
21 own system perspective as well as for the project will continue
22 to be active participants in the FRCC transmission planning
23 process. The studies are going on, as Ken mentioned, with
24 Progress Energy and Florida Power and Light's involvement, as
25 well, and we have identified in our project budget what we

1 believe is sufficient funds to integrate the project into the
2 Northwest Florida region. But it doesn't mean that there may
3 not be options that become available both to the participants
4 and other people with existing facilities in that area to make
5 improvements to that area of the state of Florida.

6 As your staff knows, and as the Commission knows,
7 there have been some identified areas, as Ken alluded to,
8 generally in the northwest area in the Tallahassee region. And
9 we believe that the construction and bringing on line the
10 Taylor Energy Center in this electrical area of the state will
11 improve the flows in that area of the state, that it will be
12 neutral on state imports and exports, but that it will improve
13 some of the flows in the Tallahassee area, will improve voltage
14 control in that area of the state by increasing the reactive
15 power available, and should generally be good. And will, in
16 fact -- the last two slides that Ken had talk about both the
17 Taylor Energy Center and the northwest studies that are being
18 done -- will be beneficial for that, and it is probably a good
19 idea to wait and some of the northwest studies to be done until
20 after we get the work done for the Taylor Energy Center
21 integration.

22 I will be happy to answer any other specific
23 questions.

24 CHAIRMAN EDGAR: Mr. Haff.

25 MR. HAFF: Do you have an estimated time of when the

1 Taylor Energy Center transmission studies will be complete?

2 MR. KURTZ: With me is Gary Brinkworth, as many of
3 you know, with the City of Tallahassee. Gary is also the
4 Chairman of the Taylor Energy Center Transmission Committee.
5 We believe the specific studies on the path that we are on that
6 will identify costs are probably in the February time frame.

7 MR. HAFF: I guess, as you know, you will be filing
8 your need filing in the next week or two with a hearing in
9 December for this project. And I'm just trying to get a
10 handle. If you don't know what you are going to need to build,
11 do you have a handle on how much it may cost? Is there an
12 upper limit to the range of estimated cost for the transmission
13 improvements associated with this project?

14 MR. KURTZ: The project participants have not set a
15 specific upper limit on transmission investment, and we would
16 have to evaluate that when those studies are completed, and we
17 intend to do so. We have no reason to believe that they would
18 be excessive, based on what we know, based on our own
19 independent studies.

20 CHAIRMAN EDGAR: Any further questions?

21 Commissioner Deason.

22 COMMISSIONER DEASON: A question for Mr. Wiley.

23 First of all, let me say I applaud the efforts and the fact
24 that FRCC is going to be more involved in the transmission
25 planning process and that you are moving forward with

1 developing a cost-sharing methodology. I think those are all
2 very positive steps. I think it is an enhanced role for the
3 FRCC that I think can and probably will be very beneficial for
4 all involved, particularly end-use customers in the long run,
5 which I think we are all here concerned about. That's why we
6 go through this process is to make sure there is going to be
7 adequate reliability. And that we not only are going to have a
8 reliable system, we are going to have one that is economic, is
9 economically efficient.

10 But the question that I have is that -- and I believe
11 in an answer to a previous question you indicated that the FRCC
12 does not have the ability to obligate a particular member to
13 take a certain course of action, but that you can report the
14 information, and that this Commission under -- you didn't say
15 this, but I'm going to say it and I was wondering if you agree
16 with it, that this Commission under the Grid Bill has the
17 authority to require infrastructure upgrades. Is that your
18 understanding?

19 MR. WILEY: Yes, sir, that is my understanding. And
20 I can assure you that is the understanding of all the
21 transmission-owning facilities, that you have that jurisdiction
22 when transmission is needed for reliability purposes. And that
23 is what we are talking about here, is reliability purposes.

24 COMMISSIONER DEASON: And you coordinate the studies,
25 you provide the information, and if there is an impasse and

1 information is provided, it would be up to this Commission to
2 actually open some type of docket. It wouldn't be the FRCC
3 petitioning this Commission to do one thing or another, is that
4 correct?

5 MR. WILEY: That's correct.

6 CHAIRMAN EDGAR: Mr. Haff, did you have a question?

7 MR. HAFF: No.

8 CHAIRMAN EDGAR: No. Okay.

9 Mr. Wiley, thank you so much.

10 And I'm going to look to our staff. Can you give a
11 feel for about how much longer we have on our set agenda?

12 MR. HAFF: Thirty to 45 minutes, probably, at the
13 most.

14 CHAIRMAN EDGAR: Okay. Commissioners, what is your
15 pleasure? I think it's time for a least a short break. We can
16 take a short break and come back and push through, or we can go
17 ahead and take a lunch break and come back after lunch to
18 finish our agenda. And I can go either way, so I'm going to
19 look for the will of the body.

20 COMMISSIONER DEASON: A short break.

21 CHAIRMAN EDGAR: A short break, yes. Either way
22 we're going to -- we're going to give Mr. Wiley the chance to
23 stretch, as well. Okay. Then let's go ahead and go on break,
24 and let's come back at about five after by the clock on the
25 wall, and we will then continue our business and push through

1 until we finish. Thank you. We're on break.

2 (Recess.)

3 CHAIRMAN EDGAR: I think we're ready to get started
4 again. We'll go back on the record.

5 MR. HAFF: We're going to hear first from Schef
6 Wright representing Orlando Utilities Commission, and
7 afterwards, in order, Progress Energy, Sarah Rogers, and Tampa
8 Electric, Ron Donahey.

9 CHAIRMAN EDGAR: Mr. Wright.

10 MR. WRIGHT: Thank you, Madam Chairman. Good
11 afternoon, Commissioners, staff, and everybody else. I'm Schef
12 Wright and I have the privilege to be here today speaking on
13 behalf of the Orlando Utilities Commission. Also present from
14 the OUC are Thomas Tart, Vice President and General Counsel of
15 OUC. Tom has been with OUC more than 25 years. Byron Knibbs,
16 Vice President of Energy Delivery for OUC, Keith Mutters,
17 Director of System Planning and Reliability, and Aaron Staley,
18 Manager of Transmission Planning for OUC. Hopefully they have
19 educated me to where I can answer just about all of your
20 questions, but if it gets real technical, they're available to
21 answer questions.

22 As Mr. Wiley's presentation showed, following the
23 FRCC's Florida Central Coordinated Study and Re-Study, OUC
24 conducted further engineering analyses and engaged in
25 continuing discussions with all directly affected parties

1 relative to the McIntosh to Taft corridor. Through our
2 analysis, we identified the Lakeland/Taft through -- hold on.
3 Okay. I touched a key that I did not know I touched.

4 CHAIRMAN EDGAR: We've all been there.

5 MR. WRIGHT: Through these studies and discussions,
6 OUC identified the Lakeland-to-Taft corridor reconductoring
7 project as the best option to address the issues relative to
8 that corridor. As background, portions of the Lakeland-to-Taft
9 corridor are congested today. However, there are no NERC or
10 FRCC violations. We have, with the FRCC, implemented what we
11 call operational workarounds to address these problems. These
12 affect and involve the cooperation of a number of utilities to
13 handle the situation. But, again, we have no NERC or FRCC
14 reliability criteria violations. As I mentioned a minute ago,
15 this has been a part of the Florida Central Coordinated Study
16 and Re-Study.

17 The map, which is the second page in our
18 presentation, shows the corridor in relation to the other major
19 transmission facilities in the area. We are having some
20 technical difficulties with the screen, but I think you all
21 have hard copies. So if you look at the map, the purple
22 highlighted section is what we call the McIntosh-to-Taft
23 corridor or the Lakeland-to-Taft corridor. We use McIntosh and
24 Lakeland interchangeably, because McIntosh is the power island
25 for the Lakeland Electricity Department, and so that's what we

1 are talking about.

2 We've got four segments here. At present, and I will
3 talk about this more in a moment, the McIntosh-to-Lake Agnes
4 segment is planned to be reconductored in 2011. The Lake
5 Agnes-to-Osceola segment is planned to be reconducted in 2008;
6 Osceola to Cane Island in 2009; and Cane Island to Taft in
7 2010.

8 Now, as I said, these or the planned dates based on
9 the current construction schedule. This schedule is based on
10 currently projected loadings on the lines with the idea of
11 addressing those that appear more likely to be more congested
12 sooner as early as possible. We will, of course, optimize the
13 construction schedule to the maximum extent possible, which
14 means we could reorder some of the segment reconductoring
15 projects based on other available workarounds and other
16 developments.

17 The reconductoring project will be engineered and
18 constructed by OUC and paid for by a combination of OUC, the
19 Florida Municipal Power Agency, Kissimmee Utility Authority,
20 and Tampa Electric Company. We have stepped up and addressed
21 this problem. Our solution meets and exceeds all NERC and FRCC
22 reliability planning criteria, yet offers the opportunity for
23 the earliest possible fix. As I mentioned, we will have
24 segments completed beginning as early as 2008. Whereas, if you
25 were to look at Mr. Wiley's Slide Number 44, you would see that

1 the earliest the segments would be completed on the full
2 rebuild to 3,000-amp project would have been in 2010,
3 notwithstanding earlier projected needed dates.

4 As Mr. Wiley's presentation showed, this is
5 definitely the most cost-effective alternative by a whopping
6 margin, and it is effective. It satisfies all of the
7 applicable reliability criteria under severe contingency
8 scenarios, not just single component contingency scenarios, but
9 under severe contingency scenarios for the whole planning
10 horizon.

11 And our study, there was some discussion about 2012,
12 we have done studies to the extent we can through 2014. As Mr.
13 Wiley said, the database is somewhat more -- maybe less robust
14 is the best way to put it, after 2012, and because there are a
15 lot of unknowns out there, generation locations and other
16 transmission projects that will effect everything after
17 probably 2011.

18 There will be some required outages on the line as we
19 reconductor it, and this will require the cooperation from a
20 number of utilities. Naturally we will participate to the
21 maximum extent possible with all of our assets and resources to
22 do that. The project has been begun. We completed a condition
23 assessment of the facilities in the corridor, an engineering
24 feasibility study, and preliminary or conceptual engineering
25 studies. We are poised to begin the detailed engineering for

1 the project by the end of this year, and to have the first
2 segment done in 2008.

3 I'll be happy to answer any questions.

4 CHAIRMAN EDGAR: Mr. Haff.

5 MR. HAFF: It's our understanding at the Commission
6 staff level that the emergency rating of the McIntosh/Taft
7 corridor was, I guess, reduced down to the normal operating
8 level recently. And that, in turn, may have caused some of the
9 projected overloads in the region. Are you familiar with that?

10 MR. WRIGHT: Basically, yes. My understanding is
11 that there is an A-rating and a B-rating. And that we know
12 what the identified A-rating, which is what might be called
13 normal on the line is, and I believe that is 444 MVA, and that
14 the B-rating is something like 563 MVA. We have never
15 supported the use of the B-rating as the long-term, as any kind
16 of long-term planning rating.

17 MR. HAFF: Would you support the use of an emergency
18 rating for testing for contingencies on this or other adjacent
19 lines that may be overloaded?

20 MR. WRIGHT: I'm going to need to ask one of our
21 engineers that question. My understanding is that emergency
22 means emergency, but let me ask one of these folks.

23 MR. HAFF: Bring them up to the table, it's fine, if
24 you like.

25 MR. MUTTERS: In addition to the issue on A or B

1 rating --

2 MR. HAFF: Would you identify yourself, please.

3 MR. MUTTERS: Keith Mutters, Director of System
4 Planning, OUC. In addition to the issue brought up about A or
5 B-rating, the real issue that has come up on that corridor is
6 the physical condition of the line. There have been questions
7 with that. There have been connections that are deteriorated.
8 We had to make a decision. And our ground clearance issues,
9 how much clearance between ground and the conductors at maximum
10 sag. So we made a decision for public safety reasons that we
11 needed to back off that B-rating to the A-rating. The
12 continuous rating of the line has never changed, it has been at
13 444 MVA, but we did back off on the B-rating.

14 MR. HAFF: After reconductoring, will the B-rating be
15 raised back up to -- I guess it will be a new level because
16 reconductoring will increase the capability of the line. Will
17 you go back to having a different A and B rating at that time?

18 MR. MUTTERS: When the line is recondotored, and
19 we're going to pursue through the FRCC the question of the
20 B-rating and how it is defined and utilized. We will have a
21 normal rating and an emergency rating for the line.

22 MR. HAFF: I think Mr. Wright may have answered this
23 already, but the existing line, or at least segments of the
24 line between McIntosh and Taff will have to be taken out of
25 service to do the reconductoring, am I correct there?

1 MR. MUTTERS: That is correct.

2 MR. HAFF: I guess I'm curious how you see OUC being
3 able to operate the Florida Municipal Power Pool being that
4 McIntosh is one of the units that would be affected by this
5 line segment being out of service. How would OUC operate the
6 power pool with line segments out of service between McIntosh
7 and Taft?

8 MR. MUTTERS: The pool has multiple generation
9 resources to dispatch. It always has to be considered as a
10 contingency that that corridor is out of service and the
11 generation is dispatched in the pool to meet the load. We will
12 certainly look at, for this corridor, outages will be taken in
13 the fall and the spring, probably from October 1st through May
14 1st time. To take this corridor out through summer loading or
15 heavy winter loading is not really an option. So it will be at
16 lighter load periods, and the resources will be coordinated for
17 dispatch.

18 MR. HAFF: I guess you have determined that you have
19 looked out through 2014, and that OUC doesn't at this time
20 project there to be any lines which would be in overload status
21 by 2014 with the 2000-amp rating, is that correct?

22 MR. MUTTERS: The original study and the re-study
23 went through 2012. OUC on its own looked at an additional
24 two-year period, and in doing that looked at the ten-year
25 plans, and you have to make some assumptions on location of

1 future resources in that time period. But in our own
2 assessment of 2013 and 2014, the line at 2,000 amps meets all
3 reliability criteria.

4 MR. HAFF: For contingencies as well as steady state?

5 MR. MUTTERS: For all reliability criteria.

6 MR. HAFF: Reconductoring, I guess, uses the existing
7 H-frame transmission towers that are currently in place is my
8 understanding, is that correct?

9 MR. MUTTERS: Yes. There are two-pole H-frame
10 structures which were built down the middle of the corridor,
11 135 feet.

12 MR. HAFF: I guess if the FRCC's long-range
13 transmission study that they are going to perform early next
14 year determines that this corridor will, once again, have some,
15 I guess, reliability aspects at 2,000 amps, I take it you're
16 going to have to go do something else, and I'm thinking that
17 something else would be tearing it down and reconstructing to a
18 higher amperage at some point in time. And I guess I wanted to
19 get your opinion on whether that's the case?

20 In other words, how would you increase the capacity
21 of that? After reconductoring, how would you increase the
22 capacity further in that corridor if the FRCC or your own
23 ten-year transmission study shows that you need more capacity
24 above and beyond the reconductoring?

25 MR. MUTTERS: Well, physically you can only do so

1 much on those existing wood structures. I mean, originally we
2 didn't even consider a reconductor as an option, the planners
3 didn't even build that in as an option or alternative. To go
4 from the reconductor to additional capacity, you've got to
5 build totally new structures. And since the existing H-frame
6 are down the middle, it's a coordination problem. To get the
7 new structures in, try to maintain the existing line in
8 service, it's a big, big step to go from reconductor to a total
9 rebuild. But that's the next step. And you're no worse off
10 doing the reconductor today and upgrading the corridor in the
11 future than you would be if you did it today.

12 MR. HAFF: Okay.

13 MR. MUTTERS: You still have to take that giant leap
14 at some point to get those new structures in to the side of the
15 existing structures and then you just have to rip out the old
16 line and trash it.

17 MR. HAFF: Would segments of the old line have to be
18 taken out of service to provide sufficient clearance in the
19 right-of-way to build the new structures, if required?

20 MR. MUTTERS: I'm not going to get too deep into the
21 engineering, but the span lengths of the existing structure,
22 between the existing structure are such that you can't put the
23 new structures in and energize the existing line without making
24 some modifications. You can't operate both at the same time.

25 MR. HAFF: I had a few more. I didn't know if you

1 wanted to break for any other questions.

2 CHAIRMAN EDGAR: Go right ahead.

3 MR. HAFF: This feels like cross-examination.

4 CHAIRMAN EDGAR: But it's not.

5 MR. HAFF: It's friendly, yes.

6 MR. WRIGHT: We're all on the same team.

7 MR. HAFF: Thank you, Mr. Wright. We have heard that
8 there are some operational measures that can be performed
9 immediately, that I guess are taking place immediately prior to
10 the projects in the Central Florida Study being completed. And
11 I'm assuming that operational measures would include something
12 like uneconomic dispatch to balance generation and load in
13 certain geographic regions.

14 Could you briefly describe how that works? I mean,
15 my understanding essentially is you have to dispatch out
16 uneconomically to keep stability in certain regions when there
17 is an overload of a transmission line.

18 MR. MUTTERS: I cannot go into great detail in the
19 operational, but there is redispatch as part of the
20 workarounds. When you are throw in the uneconomic, that is a
21 judgment issue determining whether it's uneconomic or not. The
22 fact is that there is redispatch from south to north to
23 positively impact this corridor. There is also a reactor in
24 this corridor that can be implemented as another stage of the
25 workaround.

1 MR. HAFF: Do you have a feel for the amount, I
2 guess, of capacity or energy that is being affected by the
3 redispatch of generation to work around these transmission
4 contingencies? Do you have a feel whether it is increasing --
5 I assume it is, but I'm just asking you, and do you have a feel
6 for the amount and maybe the possible cost differential of
7 these workarounds?

8 MR. MUTTERS: Within the re-study reports, it did
9 quantify some potential redispatch. I do not remember those
10 numbers exactly. I think it is around 50 to 200 megawatts in
11 the near term potentially, and something greater than that in
12 the outer years. Economically, I could tie no number to that.

13 MR. HAFF: But, I guess, from Orlando's point, or
14 from OUC's point the only unit -- if there was an overload in
15 the line that would probably need to be taken out of service
16 would be McIntosh, or the redispatch would be -- McIntosh would
17 have to be taken down and something east of the corridor would
18 have to be increased to maintain stability, is that correct?

19 MR. MUTTERS: No, you can't limit it to one unit.
20 There are multiple units that affect this corridor and the
21 other corridor that is parallel to it.

22 MR. HAFF: Okay. That's all I was going to ask.

23 CHAIRMAN EDGAR: Commissioner Arriaga.

24 COMMISSIONER ARRIAGA: It's to Mr. Haff. The line of
25 questions that I was just listening to, questions and answers,

1 I may have interpreted the whole thing wrong, but I was getting
2 the feeling that you don't seem to be too satisfied with the
3 solution that has been presented. You pointed out so many
4 issues, problematic issues to the solution, I just wonder how
5 you feel for this. What's going on?

6 MR. HAFF: I guess my concern is that we are going
7 to -- and he has actually satisfied a lot of the concerns I
8 had. I guess I'm just thinking ahead to beyond 2012 and beyond
9 2014. It seems from an engineering perspective that you may
10 have to tear it all down that you have just reconductored and
11 redo it anyway. But as Mr. Mutters just said, you're going to
12 have to do it now or do it later. And as discussed earlier, I
13 think, in the workshop, the value of saving the capital
14 expenditures now and saving, you know, the carrying costs of
15 the capital expenditures is such that it makes economic and
16 engineering sense to go on and reconductor and just essentially
17 postpone the ultimate need for new towers and new lines.

18 COMMISSIONER ARRIAGA: So it is your perception that
19 sometime down the future, maybe none of us will be here, this
20 issue may come up again and we will be talking about 3,000 amps
21 and we'll be talking about \$400 million?

22 MR. HAFF: I believe you're right, Commissioner. As
23 far as when, you know, it will be sometime down the road. And
24 not just in this area, but in other areas of the state, as
25 well. You know, as the state continues to grow, other

1 utilities in other regions of the state are going to be looking
2 at the same issue of whether to rebuild or reconductor. It
3 just hasn't risen to the level of a reliability concern as it
4 has at this time in central Florida.

5 COMMISSIONER ARRIAGA: Thank you.

6 CHAIRMAN EDGAR: Mr. Wright.

7 MR. WRIGHT: Madam Chairman, if I could, I would like
8 to respond briefly to Commissioner Arriaga's question.

9 CHAIRMAN EDGAR: Yes.

10 MR. WRIGHT: Mr. haff's line of questioning, which
11 was entirely fair and we're happy to answer them, like I said,
12 we are all on the same team, really was predicated on a what
13 if. It was what if the line should become overloaded at some
14 point in the future. And as we've been talking about, the
15 robustness of the database beyond 2011 or 2012, at the outside,
16 is not real high. And there are at least as many what ifs that
17 could completely obviate the need for any further activity on
18 the McIntosh-to-Taft corridor down the road.

19 It's a highly interdependent system, which is the
20 gist of everything everybody, Mr. Wiley and others have been
21 talking about all morning and into the afternoon now, and it's
22 highly interdependent on current loads, projected loads, future
23 generation location decisions, much of which is not known, and
24 future transmission projects. There are a good number of what
25 ifs out there that would completely obviate the need for any

1 future activity or at least within 15 or 20 years on the
2 McIntosh-to-Taft corridor. It could happen.

3 We deal with these kind of things. Could you
4 construct a scenario where something would have to be done
5 before 2014? Yes. Are there a bunch of potential,
6 realistically potential scenarios where you don't have to do
7 anything until 2024? The answer is also yes.

8 CHAIRMAN EDGAR: Mr. Ballinger, did you have a
9 question?

10 MR. BALLINGER: No, ma'am. I got clarified by Mr.
11 Trapp.

12 CHAIRMAN EDGAR: Thank you very much. Mr. Haff, did
13 you conclude your questions?

14 MR. HAFF: Yes, ma'am, I did.

15 CHAIRMAN EDGAR: Okay. Thank you. Any other
16 questions or comments for Mr. Wright and his experts? No.
17 Okay. Thank you very much to each of you.

18 MR. WRIGHT: Thank you, Commissioners.

19 MR. HAFF: Progress Energy is up next, and I'm going
20 to make sure we can see their slide show.

21 COMMISSIONER CARTER: Madam Chairman.

22 CHAIRMAN EDGAR: Commissioner Carter.

23 COMMISSIONER CARTER: May I make a statement while
24 they are adjusting?

25 CHAIRMAN EDGAR: You may.

1 COMMISSIONER CARTER: I was really looking through
2 the report given my Mr. Wiley, the presentation this morning,
3 and I was really encouraged by these conservation measures that
4 have been taken. And I think that that is -- we talked about a
5 lot of other issues, but I was really impressed with the amount
6 of megawatt and demand that we were able to -- and power we
7 were able to save just through conservation. And that's
8 something that, you know, is really -- I think the Commission
9 in its wisdom over the years -- and he has a historical chart
10 here, and I think that is something that is impressive and I
11 look forward to working as we continue this great legacy.

12 CHAIRMAN EDGAR: I fully expect that line to keep
13 increasing.

14 COMMISSIONER CARTER: Thank you.

15 MR. GLENN: Madam Chairman, my name is Alex Glenn
16 representing Progress Energy Florida, and I wanted to introduce
17 two individuals who can answer hopefully any of your questions.
18 Sarah Rogers, our Vice-president of Transmission, and Sam
19 Waters, our Director of System Resource Planning. So, to the
20 extent that you may have any questions regarding generation,
21 Sam would be happy to answer those.

22 Sarah.

23 CHAIRMAN EDGAR: Thank you.

24 MS. ROGERS: Thank you. Good afternoon. Thank you
25 for allowing us to speak. Progress Energy supports the new

1 FRCC enhanced planning process, and clearly the process is
2 working. It has identified issues that were unknown to the
3 utilities involved prior to this planning process. We applaud
4 the FRCC for taking on this responsibility of transmission
5 planning within Florida. We believe that this new planning
6 process has and will continue to provide opportunity for the
7 electric companies in Florida to better understand and
8 recognize the needs of the transmission grid.

9 We believe that the FRCC is the appropriate venue for
10 Florida's transmission planning process, and we appreciate the
11 FRCC for taking this on. The new transmission planning process
12 where all companies meet together to discuss both transmission
13 and generation plans for the future has resulted in a more
14 comprehensive view of the transmission needs for the state than
15 was available previously. The new information afforded through
16 this new joint planning process has resulted in a number of
17 transmission project schedules to be adjusted to better meet
18 the needs flowing out of the new information obtained as a
19 result of this process.

20 Our company supports the FRCC's Central Florida
21 Transmission Plan, or the Florida Central Coordinated Plan. I
22 get mixed up on the exact name on that. We support it as
23 approved, including the OUC proposal to reconductor the
24 McIntosh/Taft corridor. We believe that this plan will benefit
25 all of Florida electricity consumers by ensuring greater

1 reliability during planned and unplanned outages.

2 Progress Energy is committed to making the upgrades
3 approved in the Central Florida Study to assure our compliance
4 with NERC standards and the provision of reliable electric
5 service to all Florida customers. We will do this by
6 recognizing and managing the many uncertainties of siting
7 transmission in Central Florida, including the complexities of
8 land acquisition. Equally as important is assuring that the
9 stakeholders have an opportunity to participate in the siting
10 process and to assure the reliability of electric service
11 during the coordination of line outages during the
12 construction.

13 This chart shows the lines that Progress Energy has
14 committed to and whether they are new or rebuilds. We are in
15 the process of engineering on these lines. Some are under
16 construction. We believe that the new planning process has
17 resulted in a more global view of the transmission grid than we
18 had in the past. We have modified our plan as a result of the
19 new information made available through the planning process and
20 we look forward to participating on a going-forward basis in
21 the enhancements of the planning process as well as
22 participating in the future cost allocation methodology task
23 force.

24 And that concludes my remarks. I'll be happy to
25 address any questions that you may have.

1 CHAIRMAN EDGAR: Thank you, Ms. Rogers.

2 Commissioner Deason.

3 COMMISSIONER DEASON: I have a question on the last
4 page, the chart there. The needed in-service dates and the
5 planned in-service dates, could you explain the difference in
6 the time frames and how that affects reliability and compliance
7 with NERC standards.

8 MS. ROGERS: Yes, I'll be happy to. Progress Energy
9 identified the West Lake Wales to Intercession City lines as
10 needed when we brought on Hines 5. So, essentially, the
11 addition of Hines 5 generation in Polk County triggered the
12 need for these lines. And as the Hines 5 in-service date
13 moved, so did the in-service dates for these lines. By
14 participating in the FRCC planning process, we realized through
15 this process that these lines were needed before Hines 5, and
16 they were needed immediately. So we're doing everything we can
17 to expedite the in-service dates of these lines.

18 Unfortunately, with the West Lake Wales to
19 Intercession City lines, those must be built sequentially. We
20 cannot take out the West Lake Wales to Intercession City line
21 to rebuild it without first building the new line and then
22 tearing down the old line and building the second circuit.

23 In addition, within our previous plans, the Avalon to
24 Lake Agnes line had not been identified. We'll be needing to
25 acquire right-of-way for that line, and it also fall under the

1 TLISA process which typically adds a minimum of two years to the
2 overall construction process, or engineering and construction
3 process. So during that time frame we will have to continue
4 with some operational workarounds.

5 COMMISSIONER DEASON: And with those workarounds,
6 there's not going to be any violations of NERC standards, is
7 that correct?

8 MS. ROGERS: That is correct.

9 CHAIRMAN EDGAR: Mr. Haff.

10 MR. HAFF: Just a couple of questions, Ms. Rogers.
11 To follow up on what Commissioner Deason was pointing out on
12 the in-service dates of the lines, you mentioned about the West
13 Lake Wales and Intercession City having to be done
14 sequentially. I just wanted to get a feel, I guess. I was
15 going to ask you why are they staggered out. I guess it's a
16 manpower issue of not being able to build them all at once,
17 but --

18 MS. ROGERS: No, it's not.

19 MR. HAFF: It's not it at all?

20 MS. ROGERS: No, it's an operational issue. The
21 system cannot withstand having the line out the entire time to
22 rebuild it. We can't do both construction projects
23 simultaneously from an operational standpoint. It doesn't have
24 anything to do with resources or availability of resources.

25 MR. HAFF: I guess I was going to ask essentially why

1 not just reconductor the line to 2,000 amps. Is the
2 incremental cost to reconductor to 3,000 amps small enough that
3 it justifies reconductoring to 3,000 amps, or rebuilding to
4 3,000 amps?

5 MS. ROGERS: Well, we have looked at that and we are
6 in a very different situation than OUC. The existing
7 structures on the West Lake Wales to Intercession City line are
8 not robust enough to handle the additional weight of the
9 3,000-amp constructor. Therefore, we have to -- or 2,000 amp
10 conductor. Therefore, we have to rebuild that line. When we
11 rebuild the line, the incremental cost of the structures to
12 hold 2,000 amps to 3,000 amps is very marginal. So when we
13 look at the cost from Progress's perspective, the difference
14 between rebuilding at 2,000 amps and 3,000 amps is the
15 incremental cost of the structure and the difference in the
16 conductor cost. It's a very different situation than what OUC
17 is facing.

18 MR. HAFF: And just this one last question. I will
19 ask you the same thing I asked Orlando. Do you have a feel for
20 the amount, and I guess the dollar value of the workarounds
21 that are required prior to these lines entering service?

22 MS. ROGERS: I do not. These would occur in limited
23 instances. And it has been my experience with the utilities
24 that we represent up in the north, in North Carolina and South
25 Carolina, that operational workarounds are not an indication of

1 imprudence. Sometimes it can be more prudent to do an
2 operational workaround than to actually rebuild lines.

3 MR. HAFF: Thank you.

4 CHAIRMAN EDGAR: Commissioner Arriaga.

5 COMMISSIONER ARRIAGA: I just want to follow up on
6 what you were talking with Commissioner Deason. And you knew
7 that you needed transmission lines before 2008, and now we see
8 2009, '10, and '11. I didn't understand your answer. How did
9 it get to that?

10 MS. ROGERS: We didn't know we needed them before
11 2008. Prior to --

12 COMMISSIONER ARRIAGA: So who knew? I'm sorry, this
13 needed in-service before 2008, who knew?

14 MS. ROGERS: Before the FRCC planning process, no one
15 knew. By the utilities coming together and modeling our
16 systems as one, we identified these seams issues, and it was at
17 that time that it was identified that these lines were needed
18 before 2008. And prior to that, when we were planning through
19 our own models, these lines were needed much later on with the
20 in-service date of Hines 5, a gas-powered generator in Polk
21 County.

22 COMMISSIONER ARRIAGA: And you are able to determine
23 today that there will be no reliability issues as asked by
24 Commissioner Deason when the planned in-service dates are
25 realized. How do you know that you will not have congestion

1 problems and outages and things like that?

2 MS. ROGERS: We know that because we are able to
3 identify operational workarounds which mitigate the
4 possibilities of overloads or congestion.

5 COMMISSIONER ARRIAGA: I have heard operational
6 workarounds. Can you explain that to me, how does that work?

7 MS. ROGERS: That is redispach of generation.

8 COMMISSIONER ARRIAGA: So you have that studied so
9 that no congestion problems will occur?

10 MS. ROGERS: That is correct.

11 COMMISSIONER ARRIAGA: Okay.

12 CHAIRMAN EDGAR: Mr. Ballinger.

13 MR. BALLINGER: A procedural question. Do you have
14 any estimate of when you may be filing for a transmission line
15 siting need application?

16 MS. ROGERS: As soon as we can. Actually, Tampa
17 Electric and Progress Energy are working together to do that
18 filing of need and to go through the process together since we
19 will each own portions of that line.

20 MR. BALLINGER: If you could contact me or someone in
21 our office, because we only have a 60-day time limit to have a
22 hearing, and hearing dates are hard to find. So when you have
23 an idea, please let me know.

24 MS. ROGERS: Certainly.

25 MR. BALLINGER: Thank you.

1 CHAIRMAN EDGAR: Mr. Haff.

2 MR. HAFF: I was just going to say if there are no
3 other questions we could go on to the next presenter.

4 CHAIRMAN EDGAR: Okay. I see no further questions,
5 so thank you all. I appreciate it very much.

6 MR. GLENN: Thank you.

7 MR. DONAHEY: Good morning, Commissioners. My name
8 is Ron Donahey. I am Managing Director of Grid Operations for
9 Tampa Electric, and I have with me Greg Ramon, who is in our
10 regulatory department. Greg is going to drive for me so we can
11 get the slides accomplished quickly.

12 First, I would like to say relative to the Florida
13 Central Coordinated Study, that Tampa Electric supports the
14 recommendations that are in that study. Tampa Electric
15 believes that the OUC proposal is a good outcome of the process
16 that we have been through. We believe that it meets the NERC
17 and FRCC reliability requirements at least through 2012.

18 Another point that we think is significant as we
19 evaluate the OUC proposal is the ability to meet the original
20 needed in-service dates that we were just talking about on
21 Progress' slide, at least for that corridor that Orlando and
22 TECO are a part of, and that obviates the need for many of
23 these operational workarounds if we can meet that schedule. So
24 we think there is great value to that in addition to the
25 capital costs that have been talked about before.

1 Tampa Electric has committed through this study to
2 spend 27.7 million to date, according to the estimates that we
3 have on the projects that we are involved in. We are involved
4 in two projects. First, the Tampa Electric/Progress Energy tie
5 line between Lake Agnes substation and the new Gifford on
6 Progress' system. We have for a long time been a partner with
7 OUC on the Lake Agnes to Osceola line segment, 230 kV line
8 segment, and also a small segment that goes beyond Osceola
9 towards Cane Island, but not all the way to Cane Island. Both
10 of these segments are a part of what has been referred to here
11 this morning as either McIntosh to Taft or Lakeland to Taft.

12 The ownership percentages on these segments that we
13 are involved in, Tampa Electric owns 25 percent of the line and
14 OUC owns 75 percent. In terms of project planning and the
15 schedules that are needed, and the way we see making schedules
16 right now, on the TECO to Progress Energy corridor, right now
17 the best estimate we have is in-service June 2011. That's for
18 the entire line. This is a tie line between the two of us.
19 Tampa Electric will own the portion that's in its service
20 territory, Progress will own the section that is in its service
21 territory, and we have to obviously meet at a common spot. So
22 our schedules have to be very coordinated. The whole need
23 process through the TLSA, we need to coordinate the filings
24 that are a part of that. So we are joined at the hip working
25 through this process and we have gotten that kicked off.

1 As far as the TECO to OUC section, again, we are
2 involved in two of the four segments. We believe that the new
3 proposal allows us to meet the needed in-service dates and we
4 will be working with Orlando to continue to engineer that and
5 to try to assure that the right sequence of projects are done
6 to minimize the mitigation and operational needs in the state.

7 And actually, a schedule was recommended by this
8 study and to our best knowledge that is the schedule we will
9 follow. But obviously we will be reevaluating that as we move
10 through time, as OUC has already reported to you.

11 In conclusion, we believe that the Florida Central
12 Coordinated Study recommendations should be deemed appropriate
13 and that the parties should proceed as planned in constructing
14 the needed facilities. Tampa Electric, as many others have
15 said, really support the new and evolving transmission planning
16 process. In fact, I have the privilege of being chairman of
17 the planning committee and some responsibility to make sure
18 that that works under the leadership of Mr. Wiley and our
19 board.

20 We also believe that planning on a peninsular-wide
21 basis has identified further FRCC areas for improvement, and
22 particularly we think the cost allocation issue on a generic
23 basis is one of the things that we need to address in that
24 process moving forward. So that concludes my remarks, if you
25 have any questions.

1 CHAIRMAN EDGAR: Thank you, Mr. Donahey.

2 Any questions from our staff? No.

3 COMMISSIONER DEASON: I have a question.

4 CHAIRMAN EDGAR: Commissioner Deason.

5 COMMISSIONER DEASON: I think you indicated that TECO
6 would be participating on two of the four segments between
7 McIntosh and Taft?

8 MR. DONAHEY: That's correct.

9 COMMISSIONER DEASON: How did you determine that
10 there was only two, and how did you determine which two?
11 Depending upon your location of your generation, or how does
12 that work?

13 MR. DONAHEY: The way it was determined on this
14 recommendation was based on ownership. We currently own 25
15 percent of the Lake Agnes to Osceola section and 25 percent of
16 the Osceola almost to Cane Island, about halfway to Cane
17 Island, we own part of that transmission line. And so we have
18 agreed that any violations in the future, you know, would
19 reflect on us if we were not a part of that project and resolve
20 that problem, so we feel an obligation to correct any
21 violations, and we believe this accomplishes that.

22 COMMISSIONER DEASON: So the obligation goes to the
23 owner of the transmission line, but there are questions of cost
24 allocations?

25 MR. DONAHEY: I think that's a fair statement.

1 CHAIRMAN EDGAR: Mr. Donahey, thank you very much.

2 MR. DONAHEY: Thank you.

3 CHAIRMAN EDGAR: Okay. That concludes our scheduled
4 presentations and discussions.

5 Is there anybody here who has not addressed the
6 Commission who would like to?

7 Seeing none. Mr. Haff.

8 MR. HAFF: Thank you, Madam Chairman. Just a couple
9 of closing comments. We bring a report to you for -- it comes
10 from the Commission, we are scheduled to bring it to you on
11 December 4th at Internal Affairs, the annual review of ten-year
12 site plans. The report is statutorily due to the Department of
13 Environmental Protection, Department of Communities Affairs by
14 12/31. I will also add because of the new statutory
15 requirement about the transmission study for next March, a good
16 portion of what we know up to the date of this report will be
17 included in this report, as well. And then, of course, we'll
18 bring the other report to you early next year.

19 CHAIRMAN EDGAR: Commissioners, any questions about
20 those next steps, or any closing comments? Seeing none. Any
21 further items that we need to address at this time?

22 MR. HAFF: None that we are aware of.

23 CHAIRMAN EDGAR: Okay. Then thank you all for coming
24 and for your participation. We are adjourned.

25 (The workshop concluded at 12:56 p.m.)

1
2 STATE OF FLORIDA)

3 : CERTIFICATE OF REPORTER

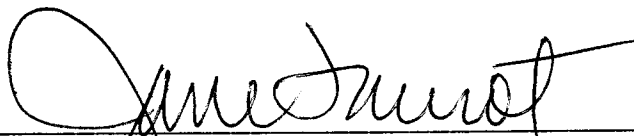
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6 I, JANE FAUROT, RPR, Chief, Hearing Reporter Services
7 Section, FPSC Division of Commission Clerk and Administrative
8 Services, do hereby certify that the foregoing proceeding was
9 heard at the time and place herein stated.

10 IT IS FURTHER CERTIFIED that I stenographically
11 reported the said proceedings; that the same has been
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13 transcript constitutes a true transcription of my notes of said
14 proceedings.

15 I FURTHER CERTIFY that I am not a relative, employee,
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17 or employee of any of the parties' attorney or counsel
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19 the action.

20 DATED THIS 19th day of September, 2006.

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